

# COUGAR SV2

Professional 1/10th Competition 2wd Electric off-road buggy

## Instruction Manual



**Schumacher**  
racing-cars.com

71-73 Tenter Road  
Moulton Park  
Northampton  
NN3 6AX  
U.K

## Additional Items Required

Transmitter and Receiver  
(including batteries for tx)

CR151  
CODE 2.4G 2 Stick 3Ch Tx+Rx  
CR152  
CODE 2.4G 2 Stick 3Ch Receiver ONLY



Servo



Electronic Speed Control



Li-Po Battery



Motor



Pinion Gear



Battery Charger



Paint



Shock Oil



C4450  
CS Superglue 20g

## Tyres and Inserts



## Tools

U2818  
Schumacher Body Reamer



3mm Dia. Drill



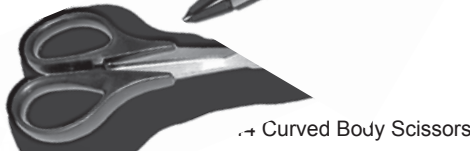
5.5 A/F Combination Wrench



Long nose Pliers



HW010 Wiha Precision  
Circlip Pliers



→ Curved Body Scissors



U2789 Hex Driver - 1.5mm  
U2790 Hex Driver - 2.0mm  
U2791 Hex Driver - 2.5mm  
U2792 Hex Driver - 3.0mm



U2795 M3 Nut Driver  
U2796 M4 Nut Driver

ED190009 Turnbuckle Wrench 4mm



\*Soldering Iron

U3107 - Solder

**COUGAR** SV2

Schumacher Racing stocks and distributes the following manufacturers products and full product listings are available on our website at [www.racing-cars.com](http://www.racing-cars.com).

PLEASE NOTE THAT SOME OF THE PRODUCT RANGES BELOW ARE ONLY AVAILABLE IN THE UNITED KINGDOM.

**AM**  
ARROWMAX

**CS-ELECTRONIC**

**CORE-RC**  
COM

**NI SRAM**

**Speed Passion**  
RC Technology Revolution

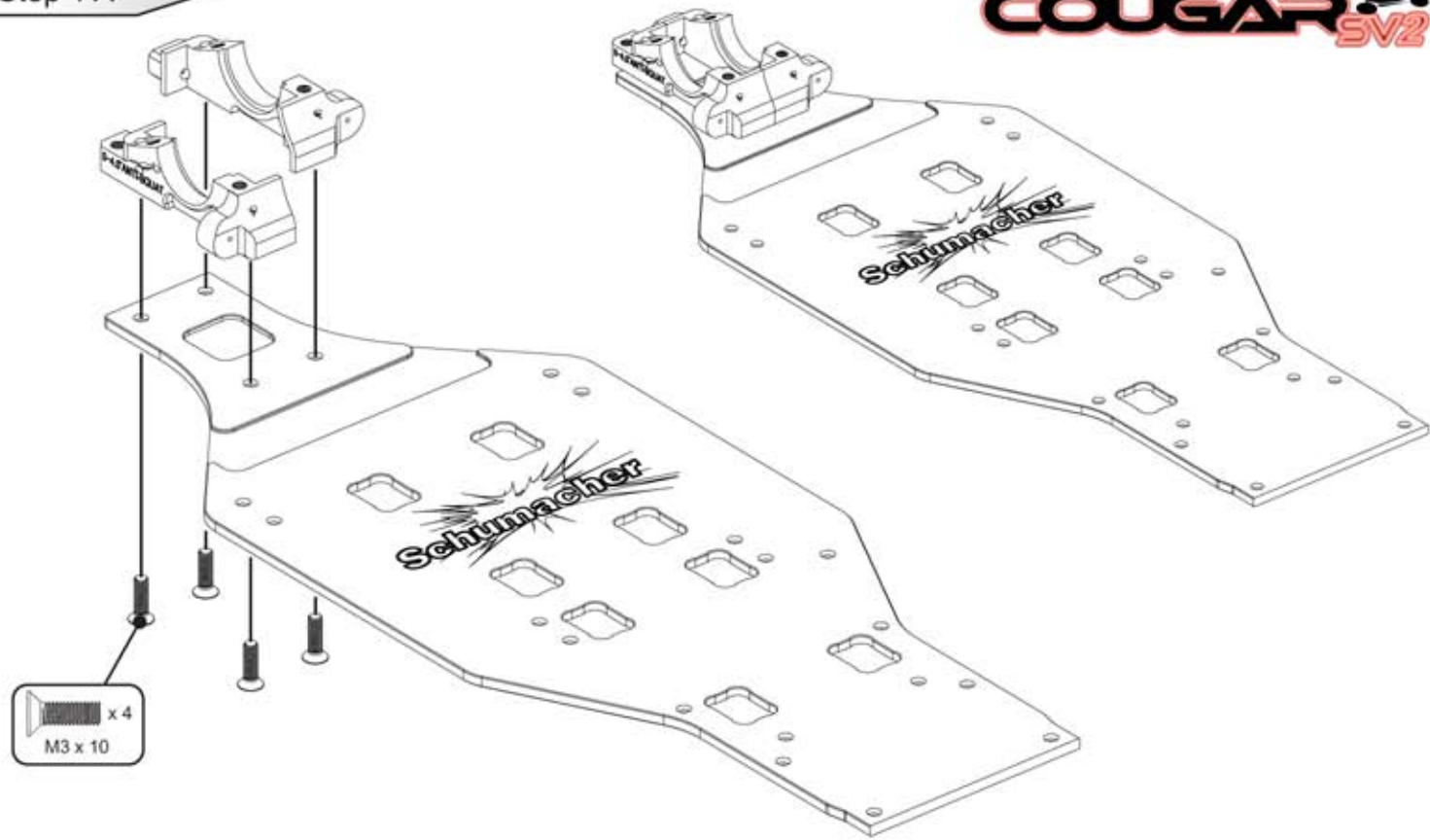
**GM**

**team EDS**  
Specialized R/C Tools

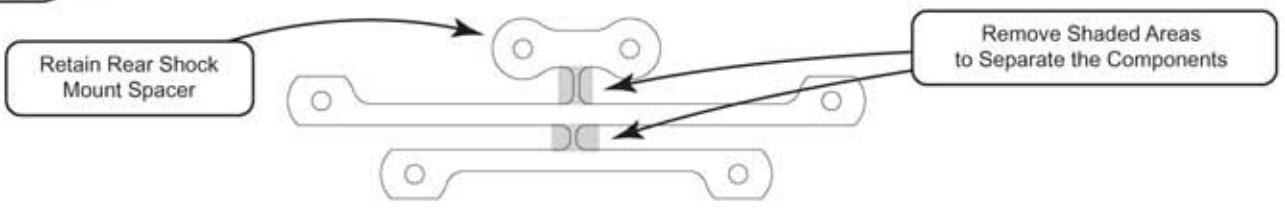
## IMPORTANT SAFETY NOTES

- This product is not suitable for children under the age of 14, without the direct supervision of an adult.
- Select an area for assembly that is away from the reach of small children. The parts in this kit are small and can be swallowed by children causing choking and possible internal injuries.
- Exercise care when using hand tools and sharp instruments during assembly.
- Carefully read all manufacturers warnings and cautions for any additional parts used in the construction.
- In line with our policy of continuous development the exact details of the kit may vary.

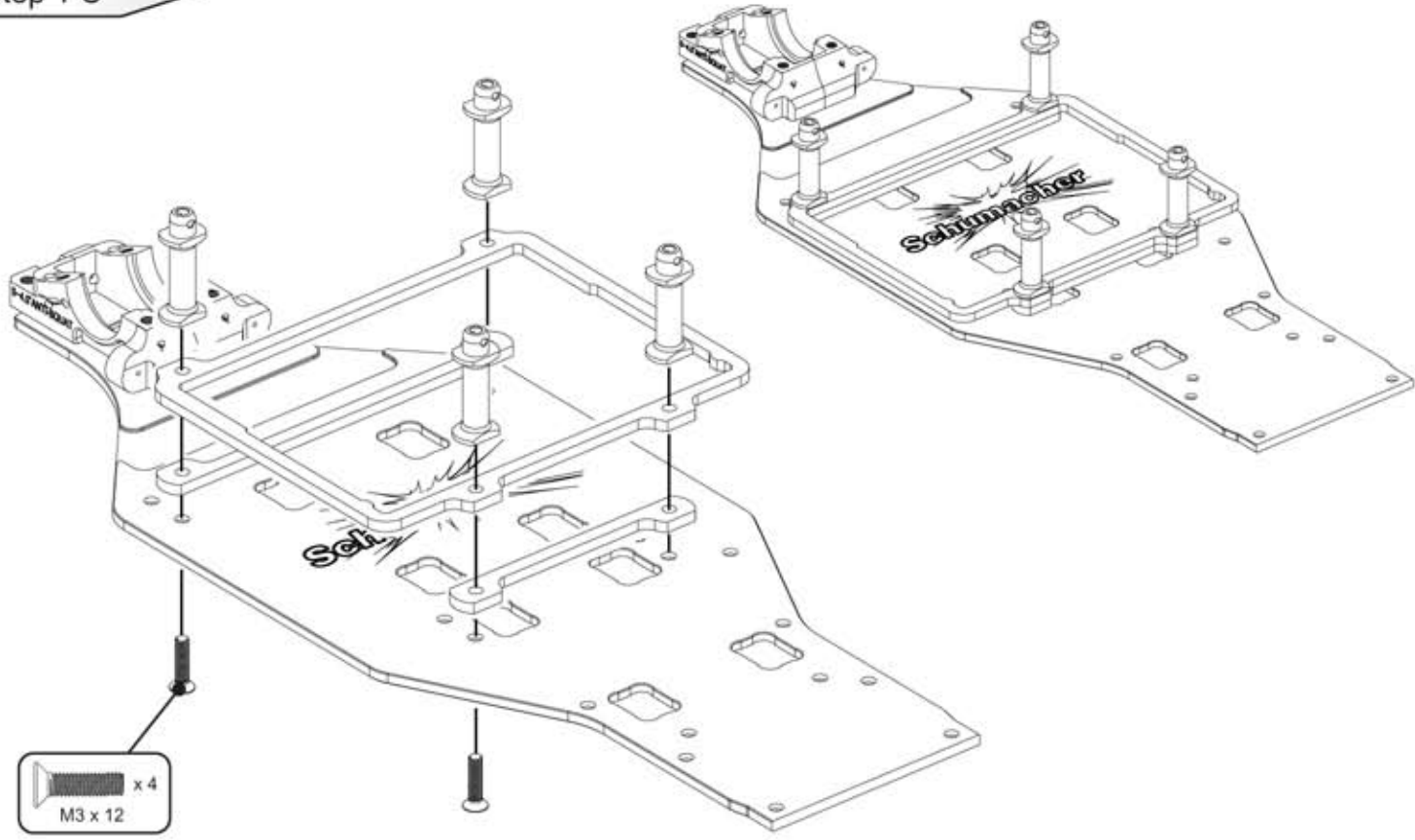
Step 1 A



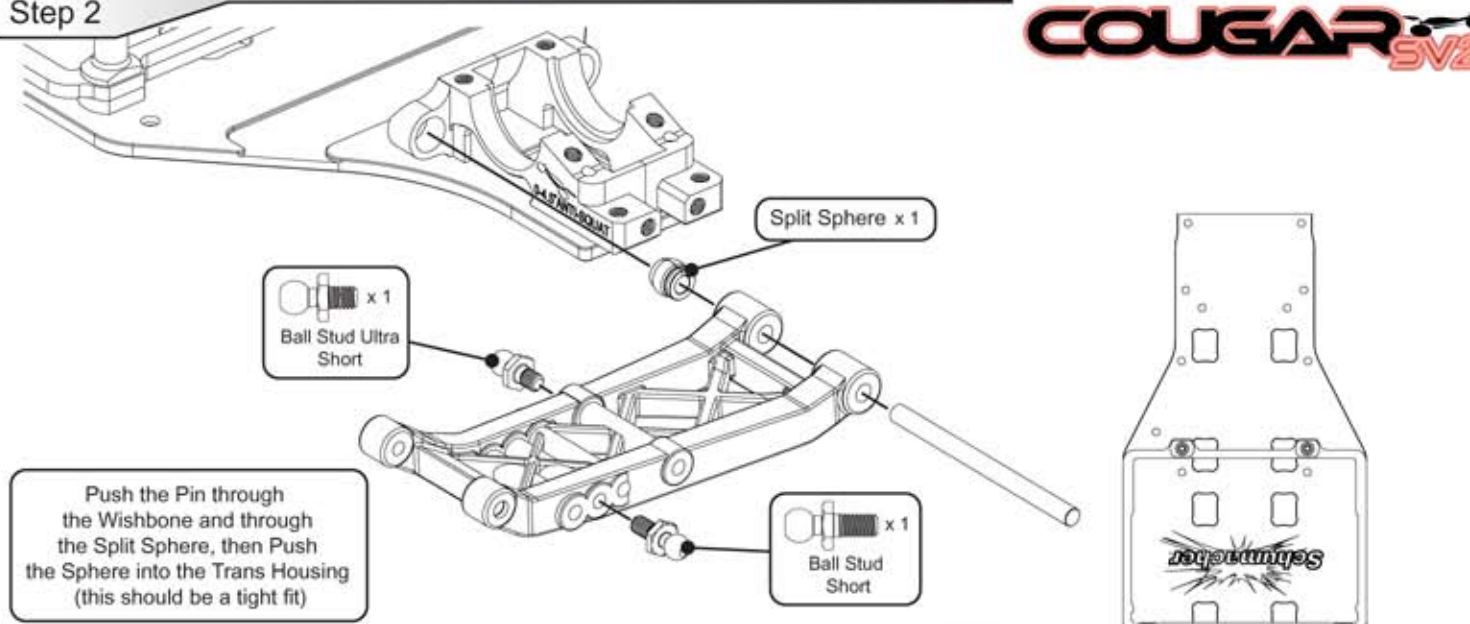
Step 1 B



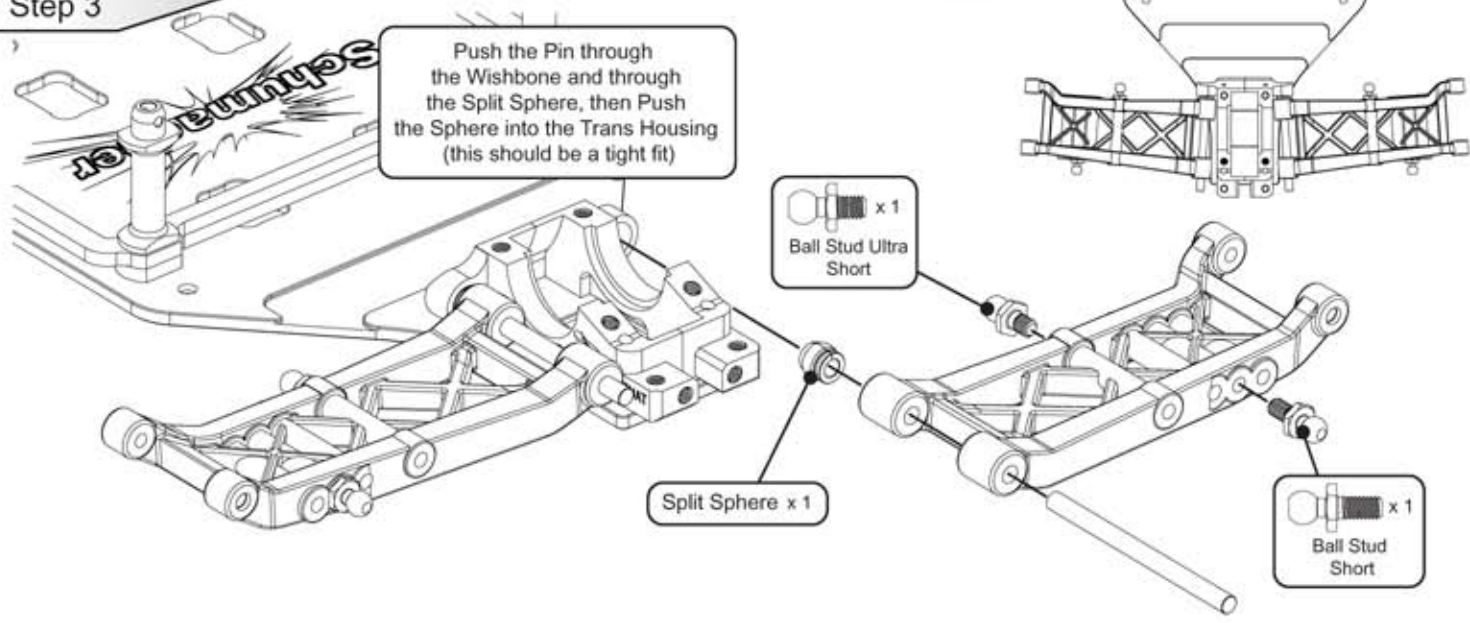
Step 1 C



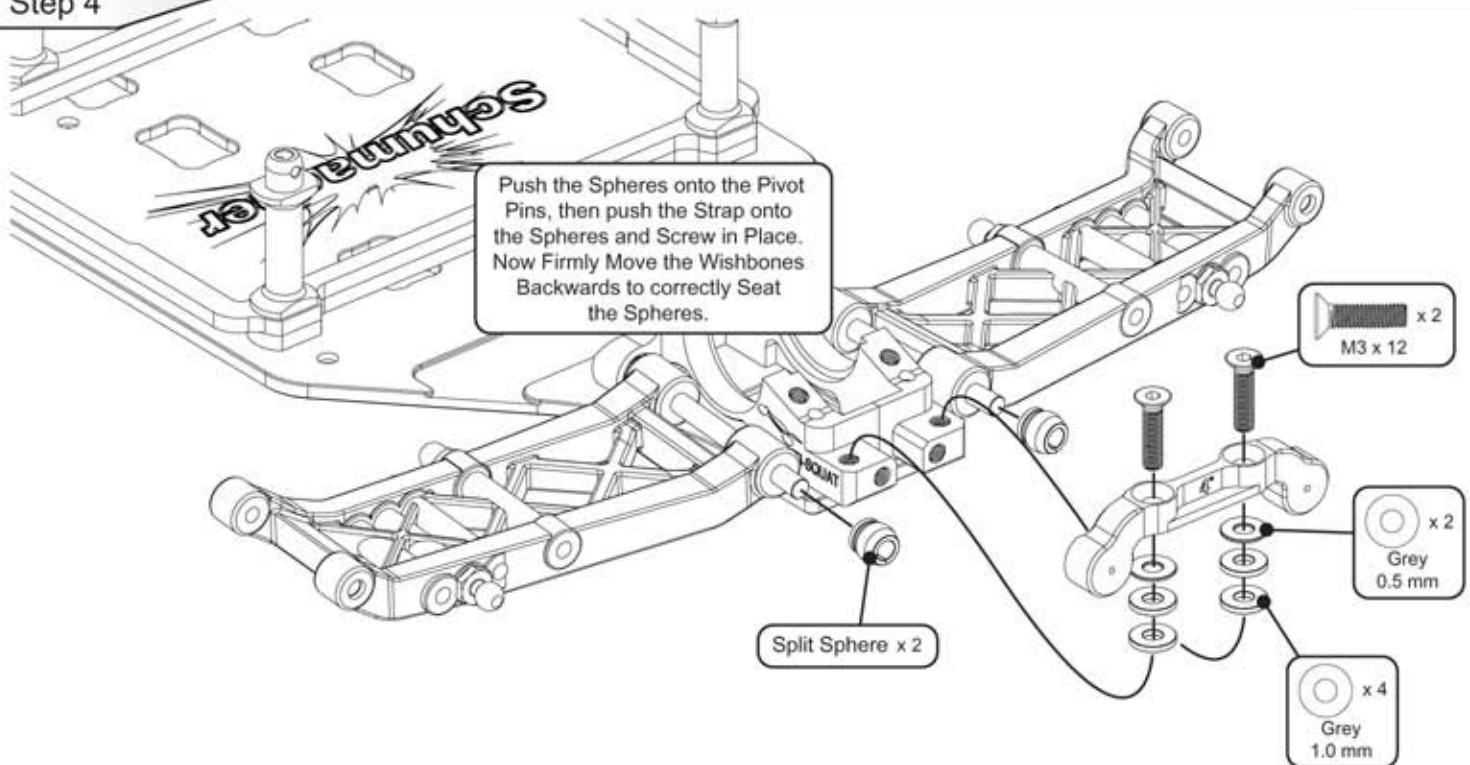
## Step 2

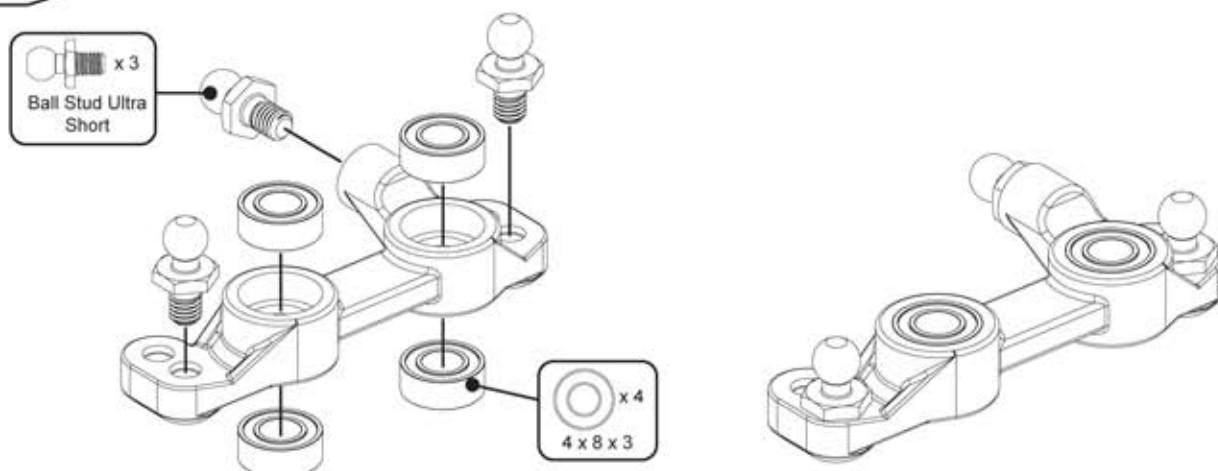
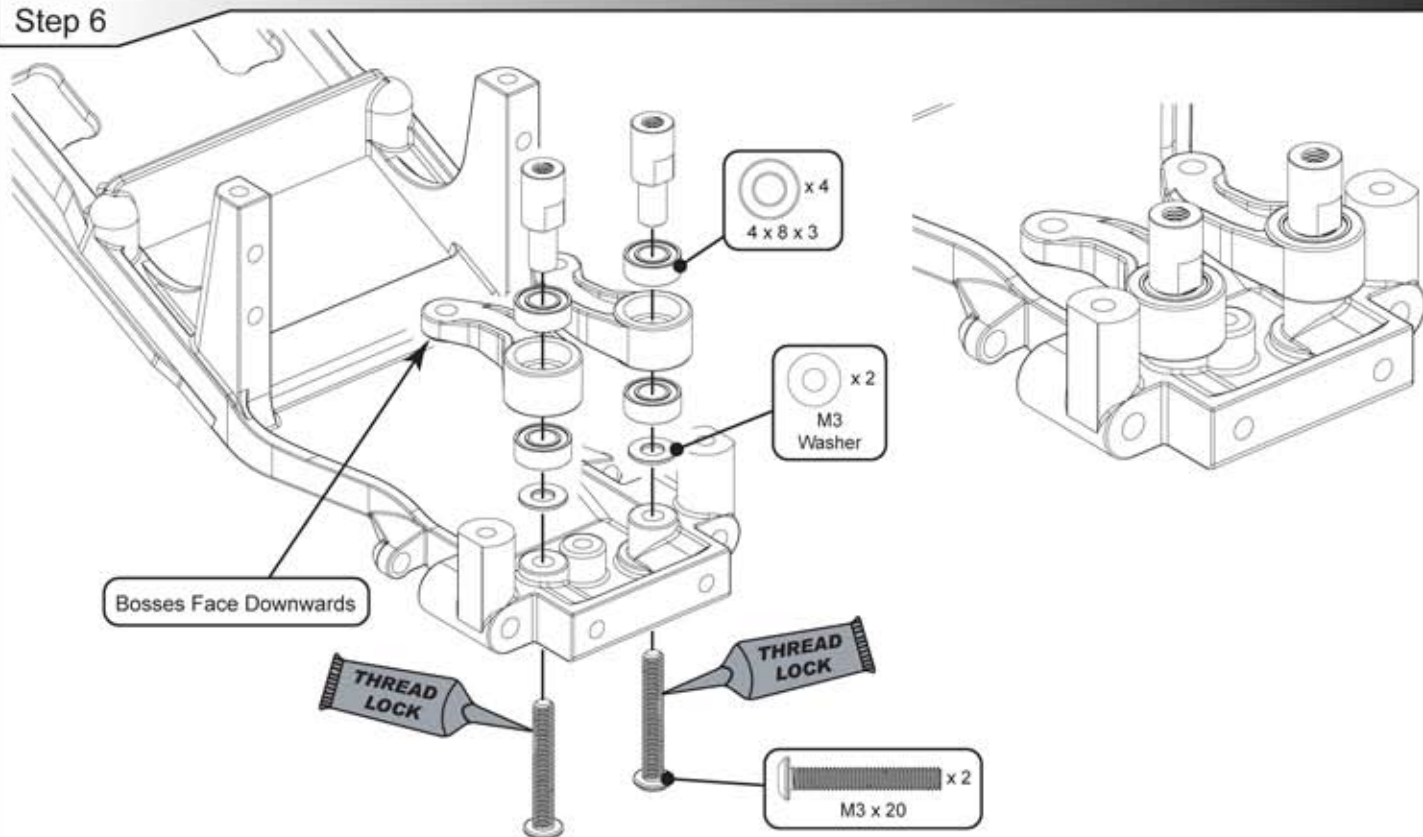
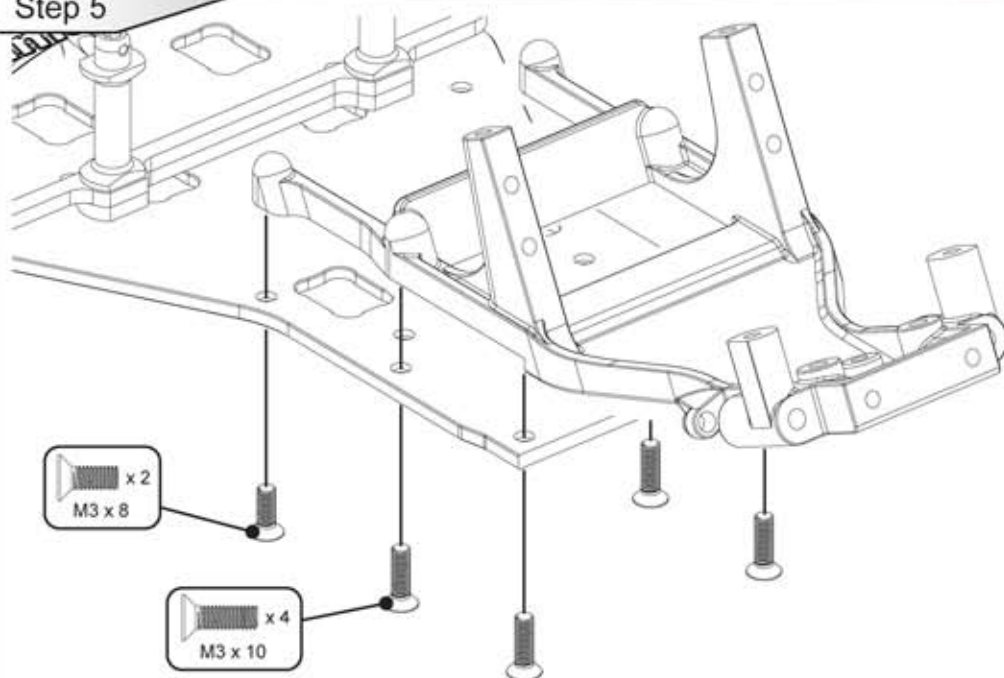


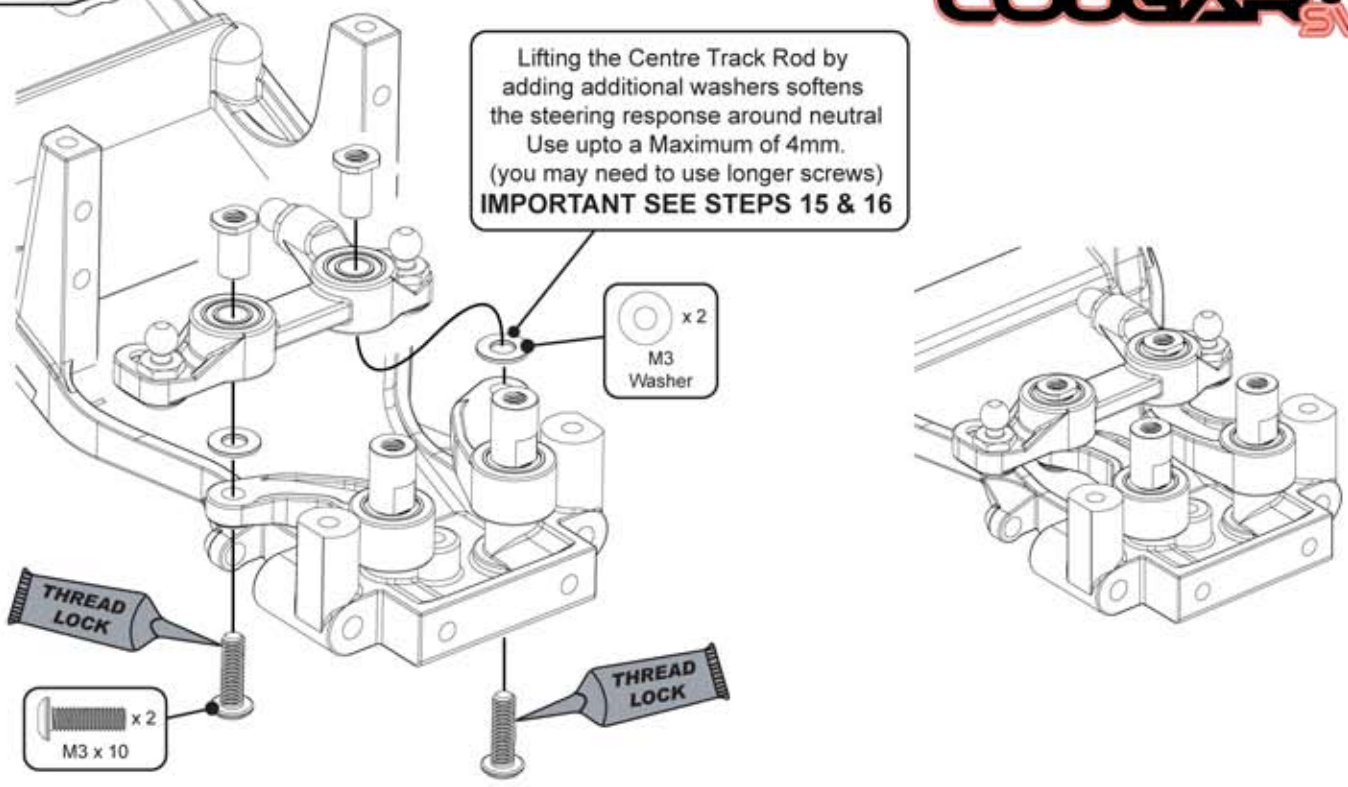
## Step 3



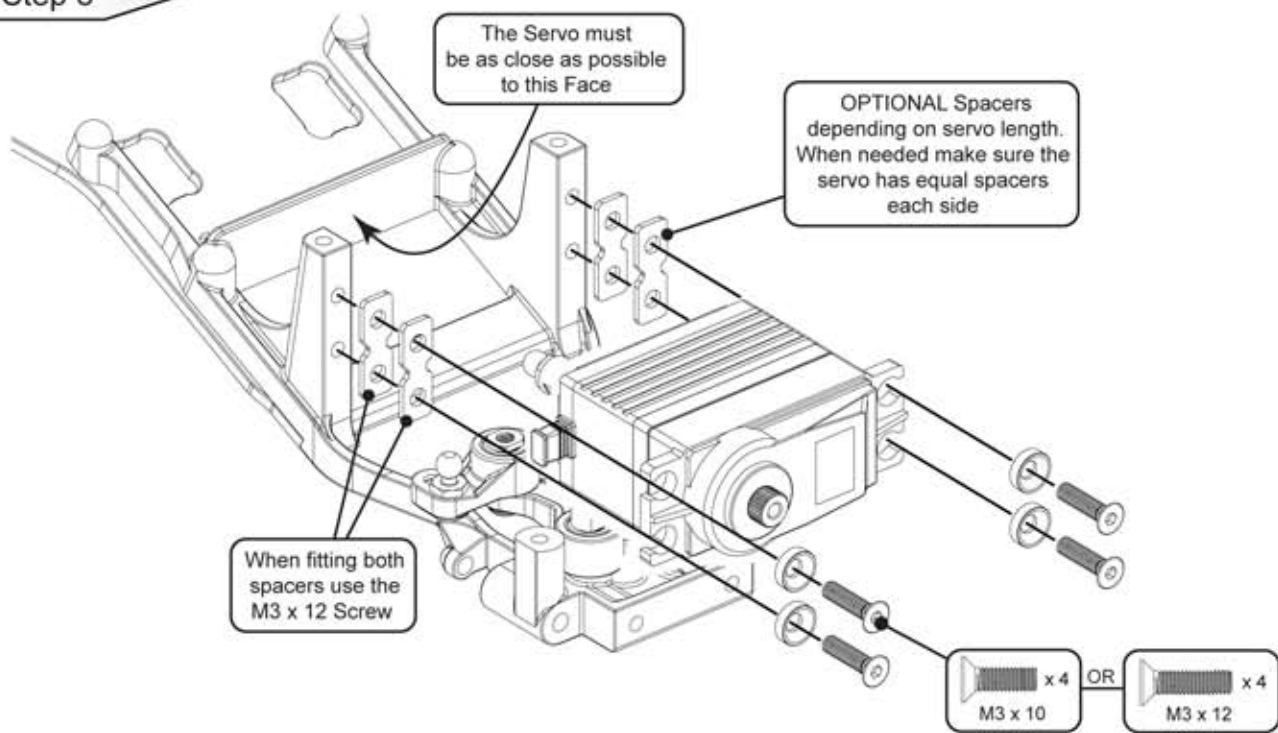
## Step 4





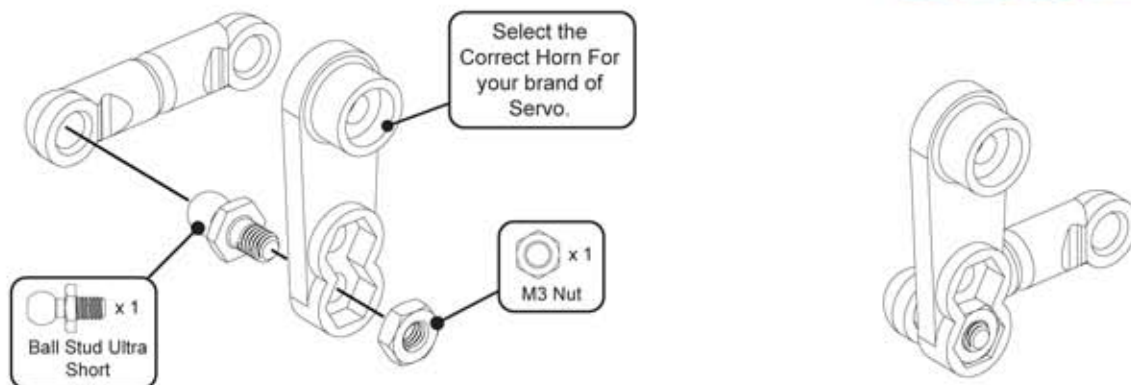


Step 8

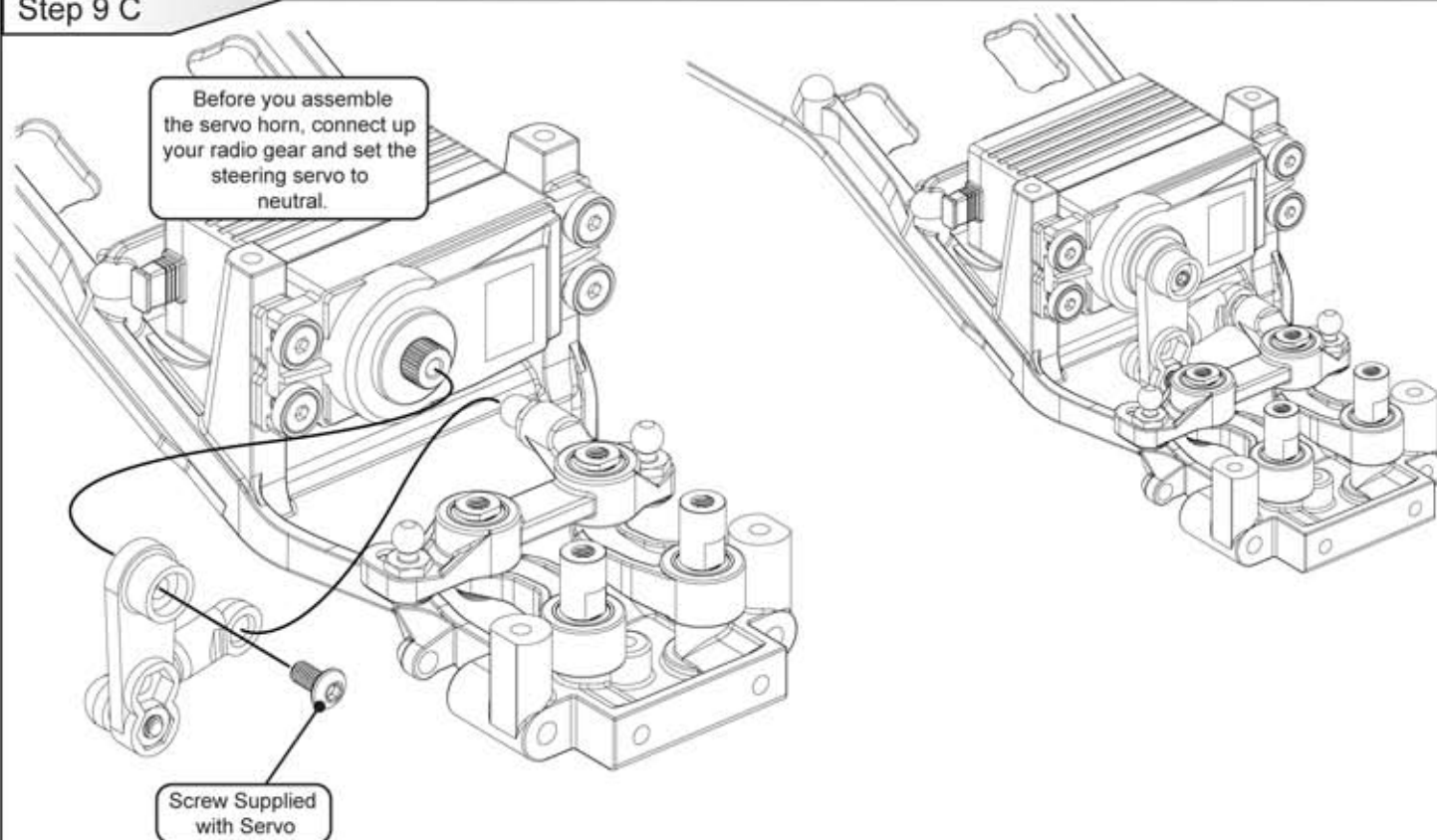


Step 9 A

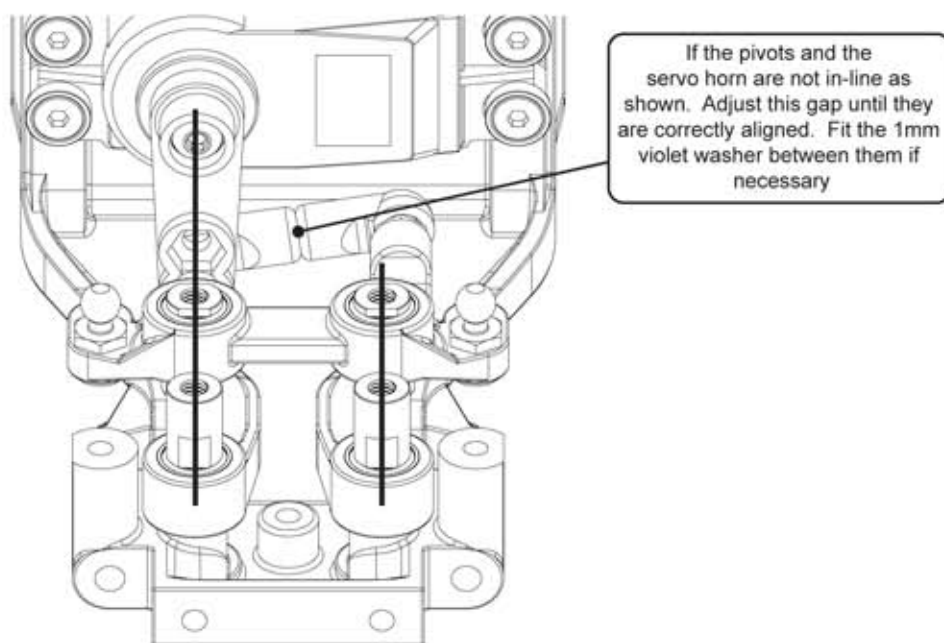


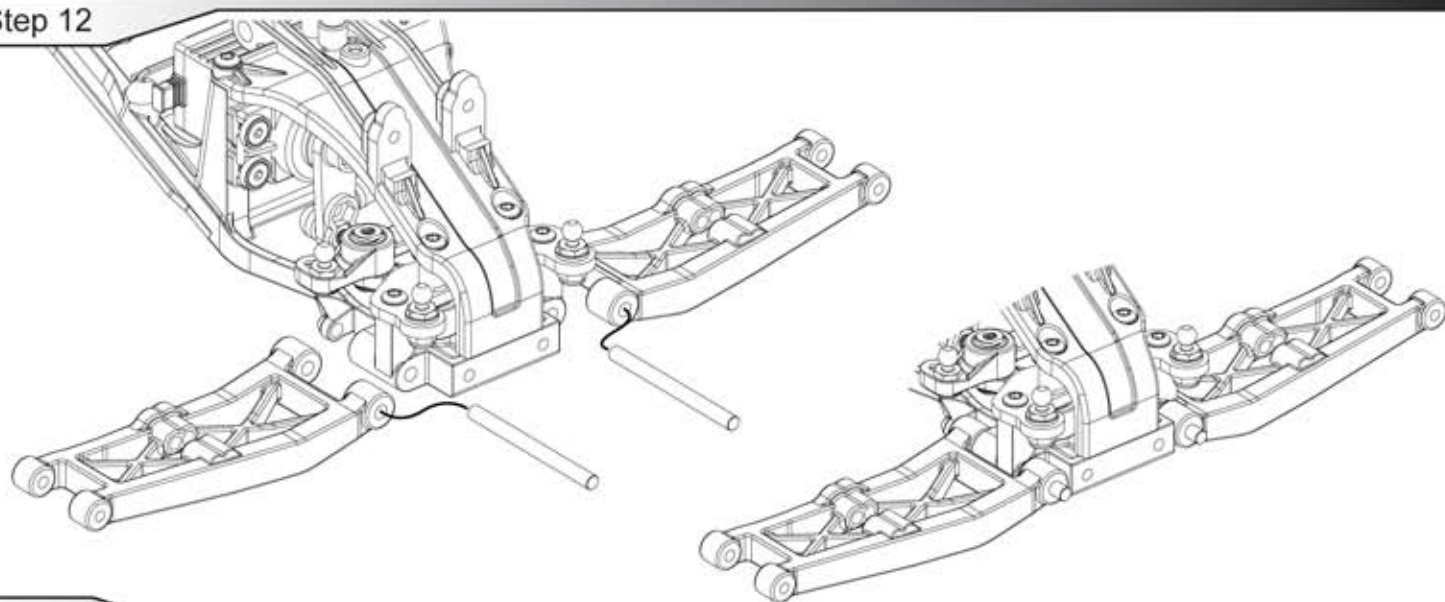
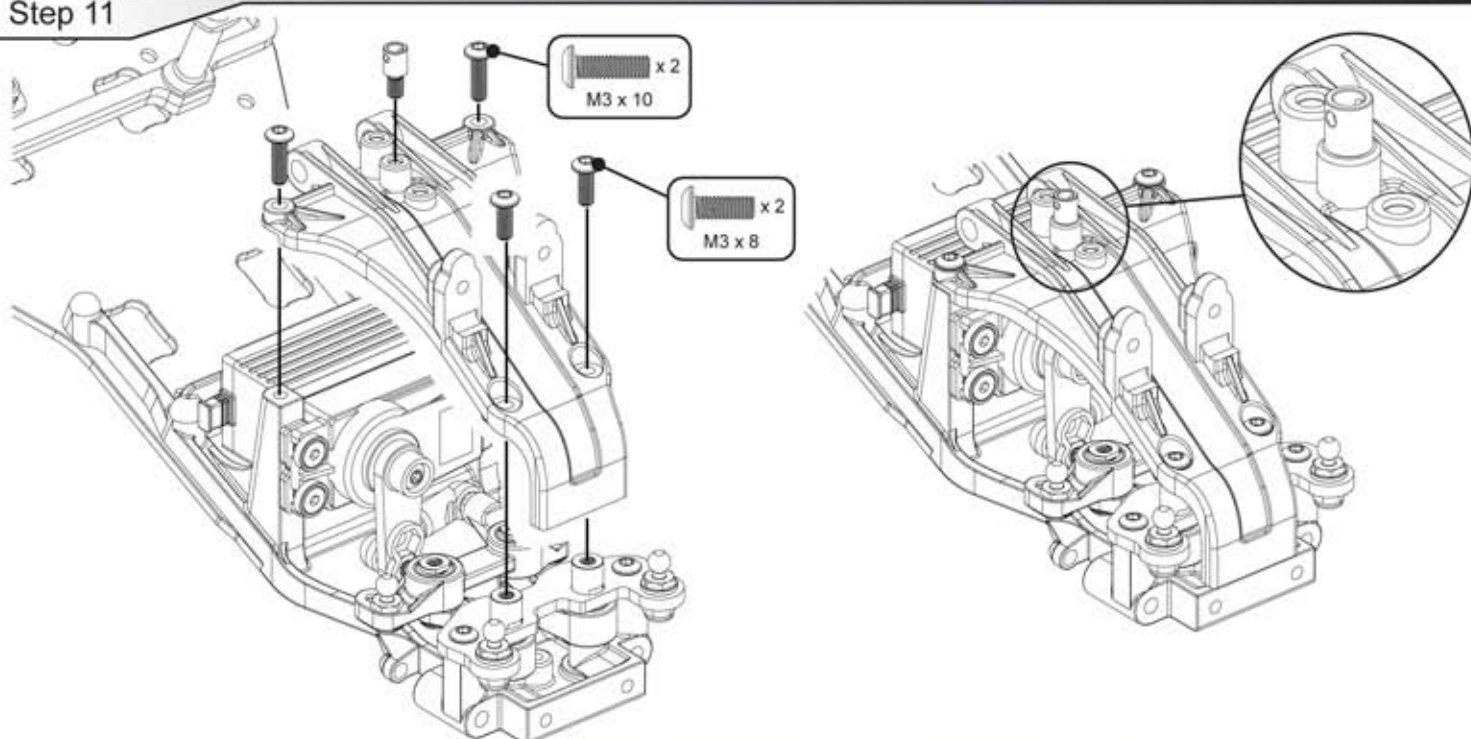
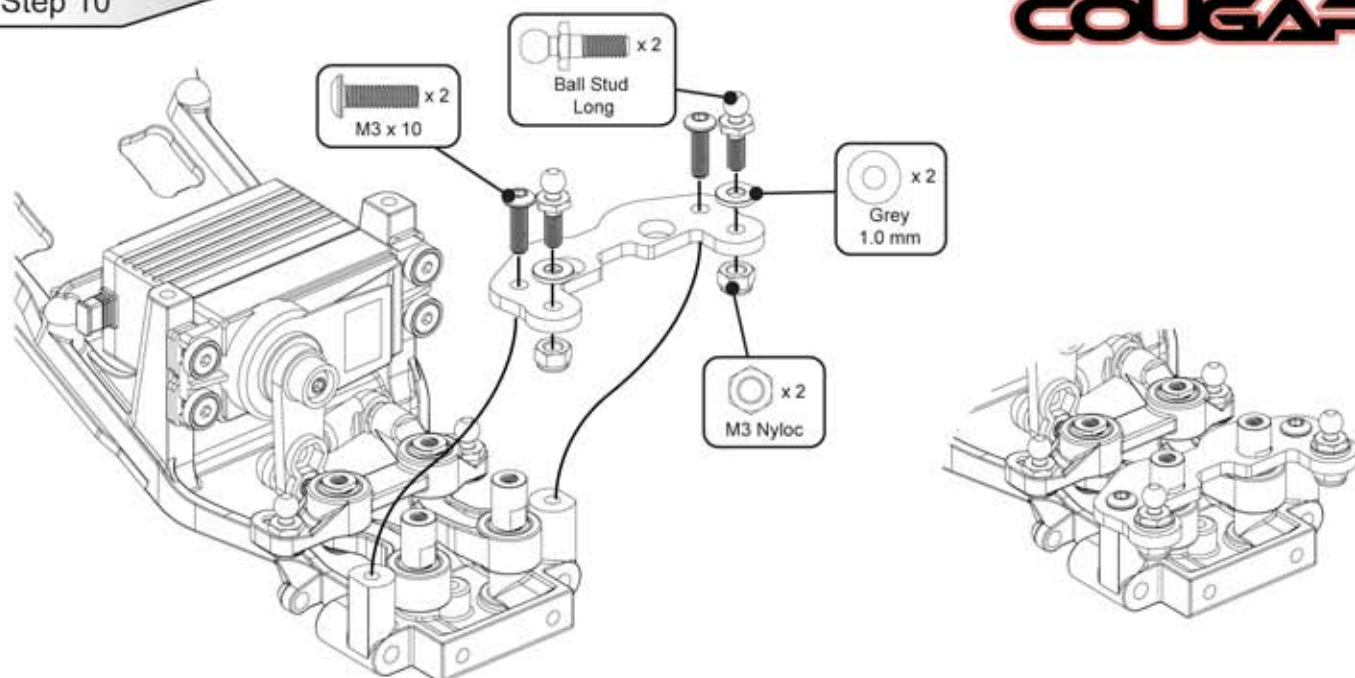


## Step 9 C

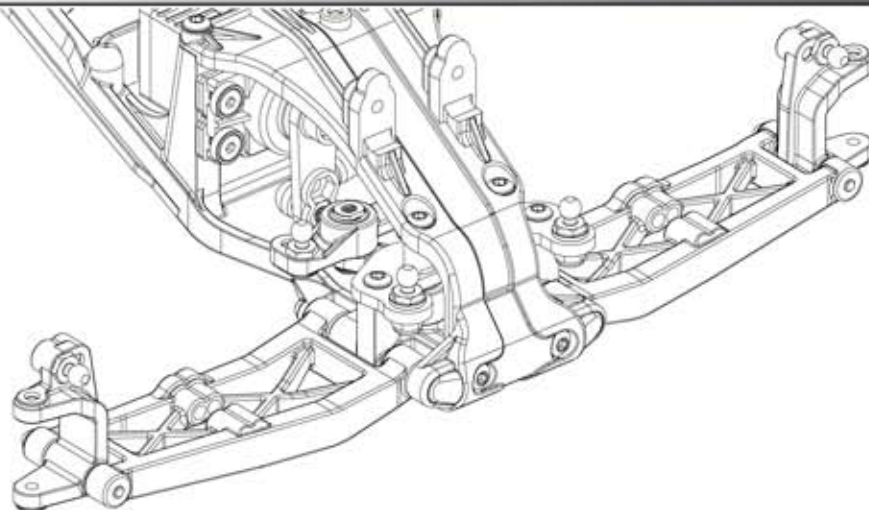
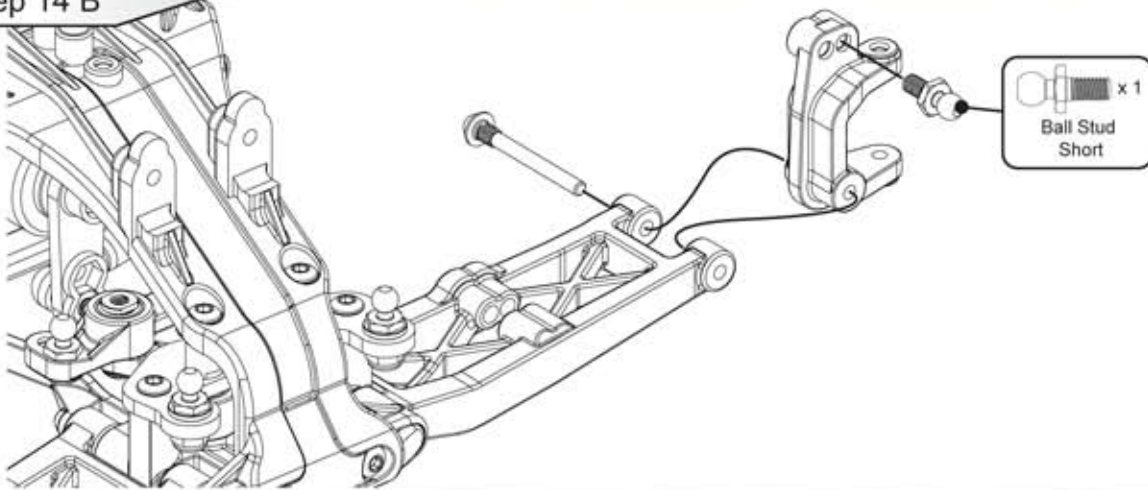
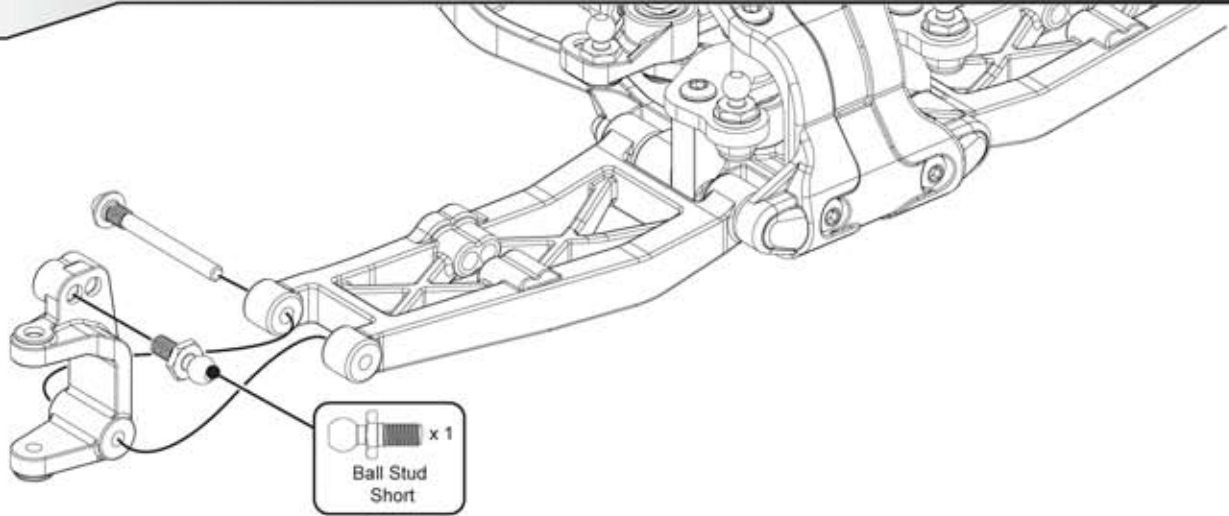
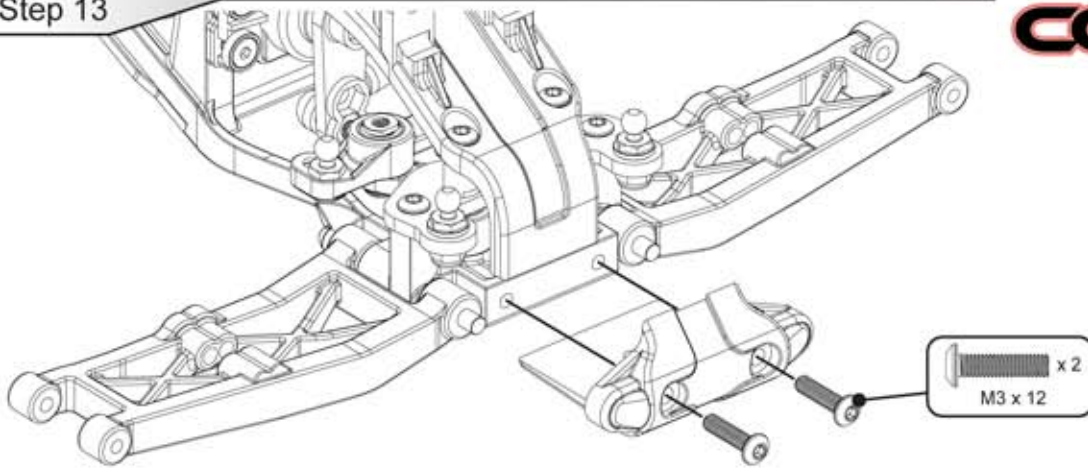


## Step 9 D



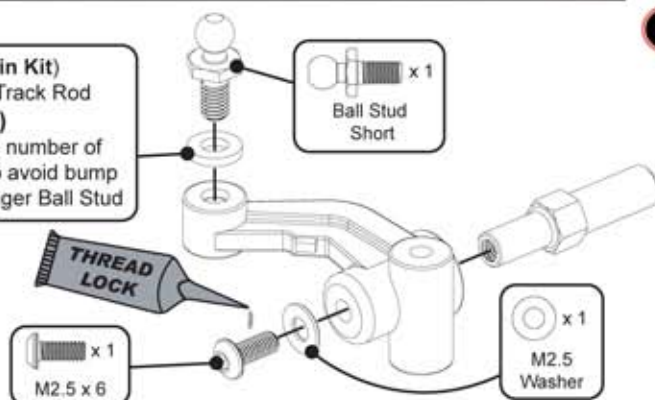




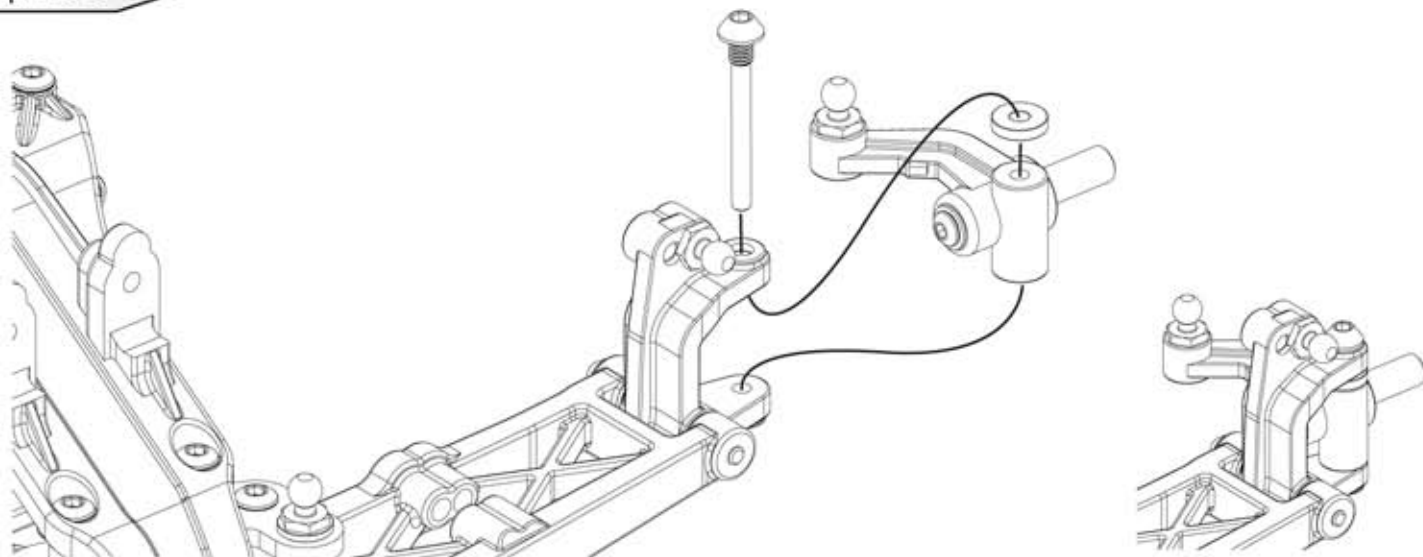


## Step 15 A

Optional Washers (Not in Kit)  
When Spacing the Centre Track Rod  
(Page 5 Step 7)  
you must also add the same number of  
washers under the ball stud to avoid bump  
steer, you may also need a longer Ball Stud

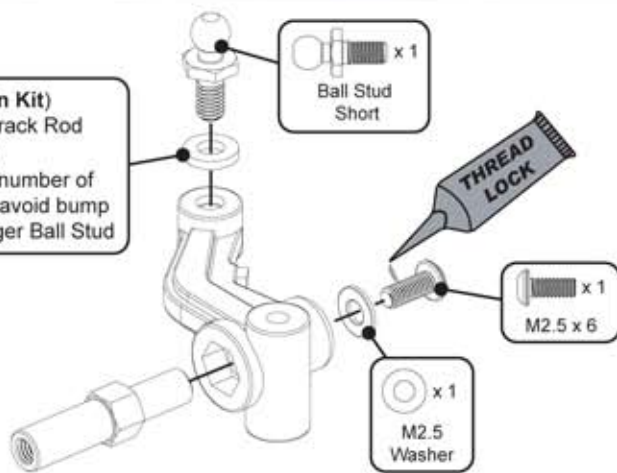


## Step 15 B

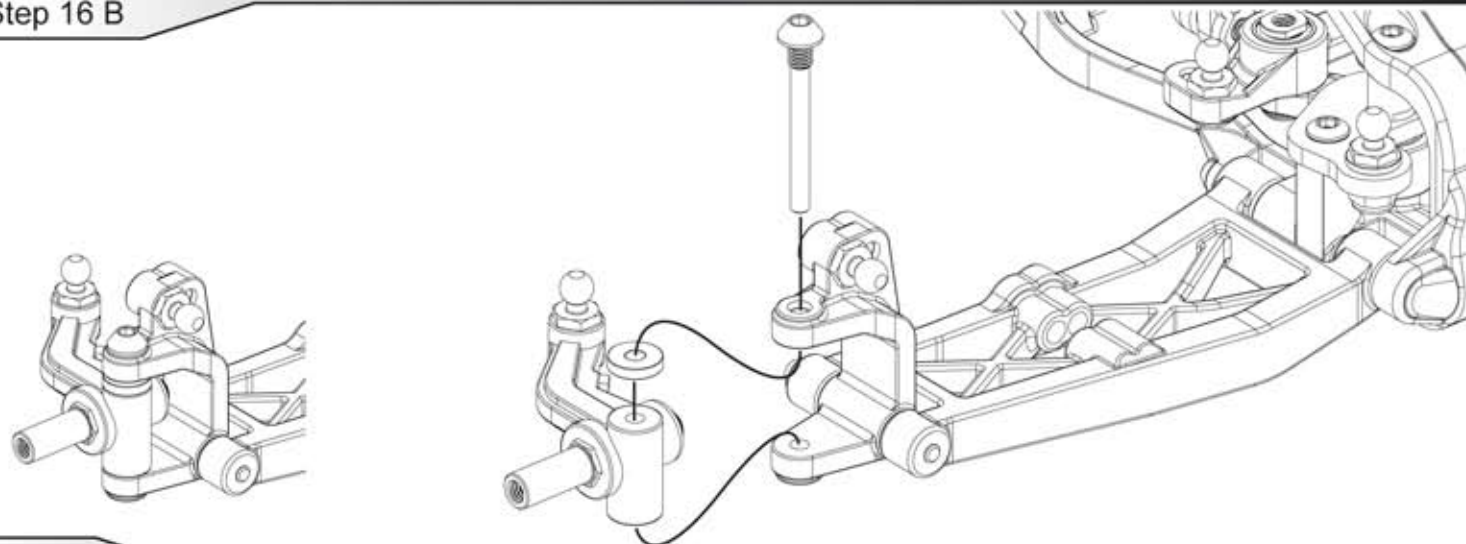


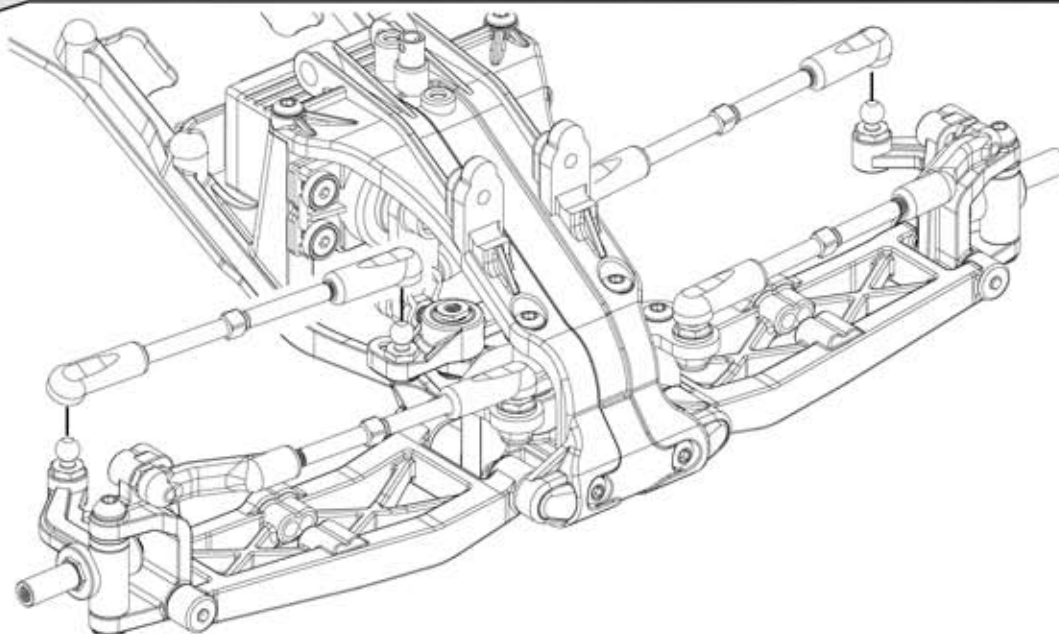
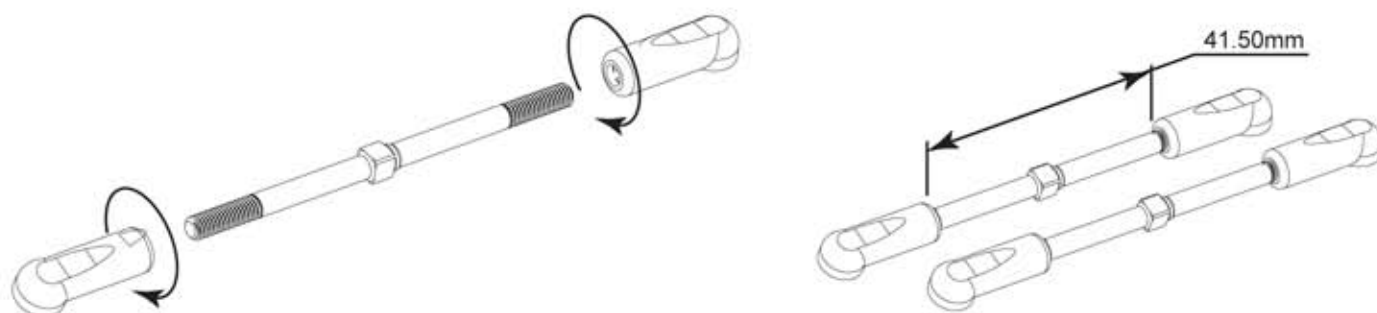
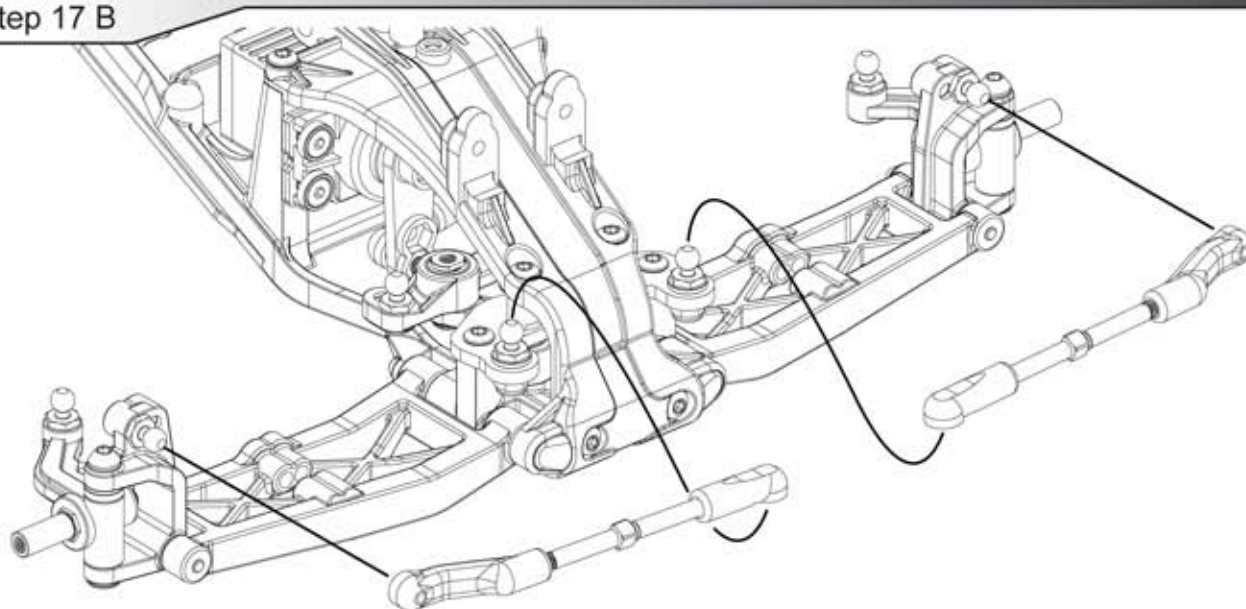
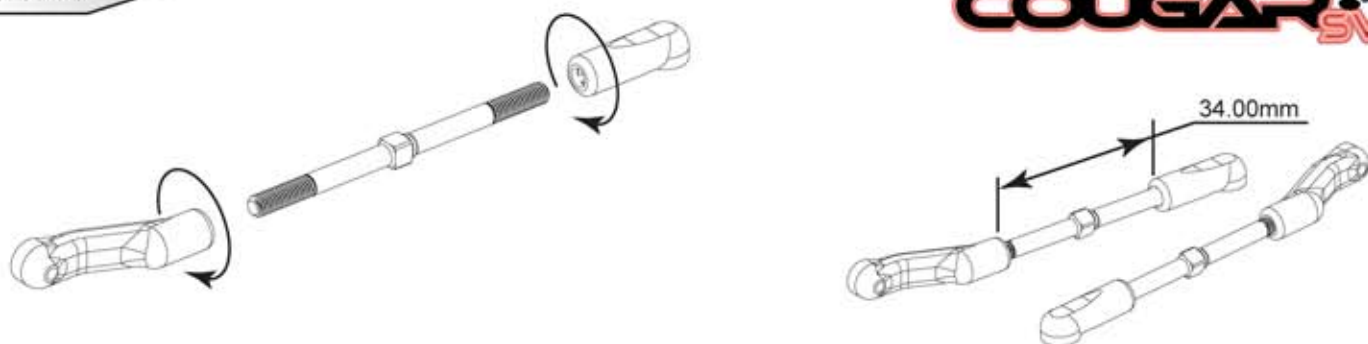
## Step 16 A

Optional Washers (Not in Kit)  
When Spacing the Centre Track Rod  
(Page 5 Step 7)  
you must also add the same number of  
washers under the ball stud to avoid bump  
steer, you may also need a longer Ball Stud



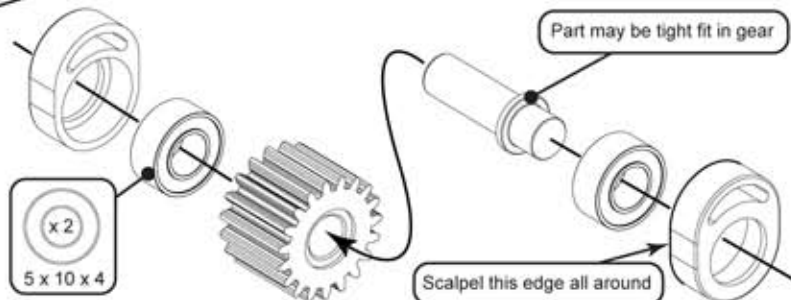
## Step 16 B





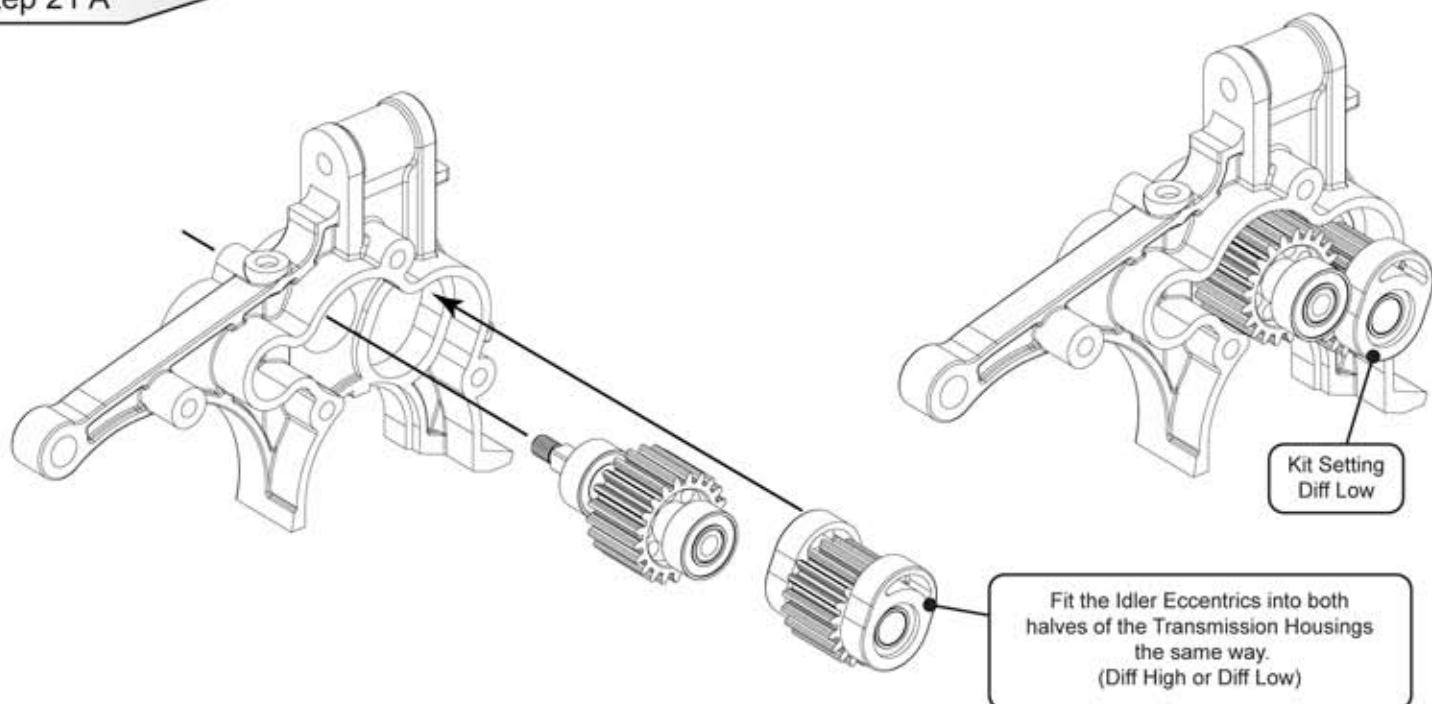


## Step 20

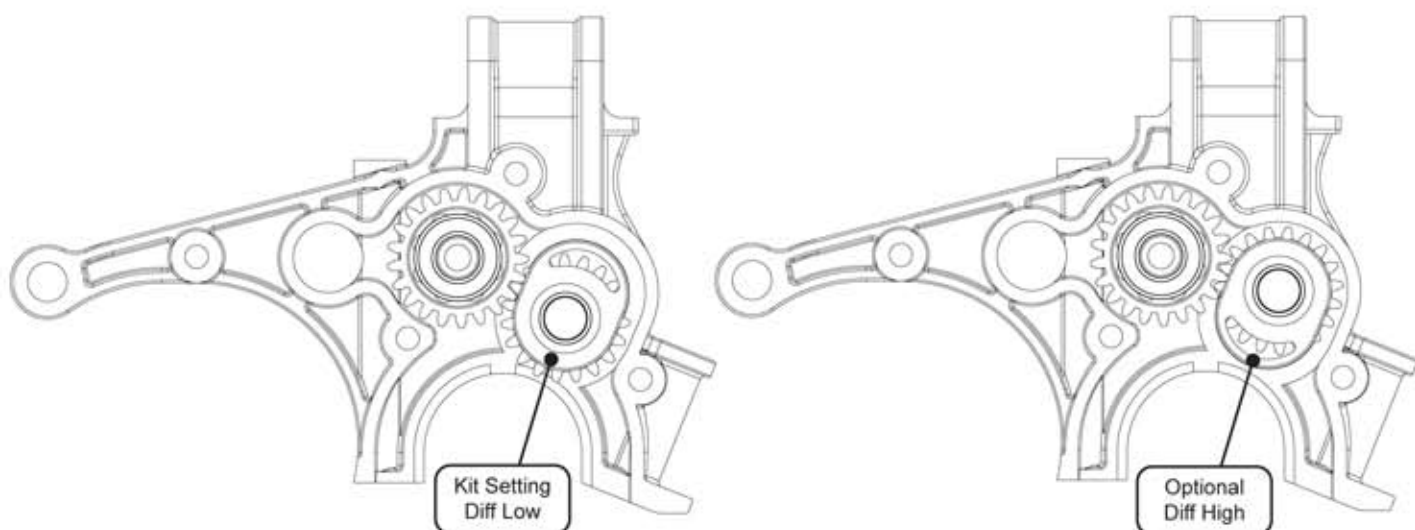


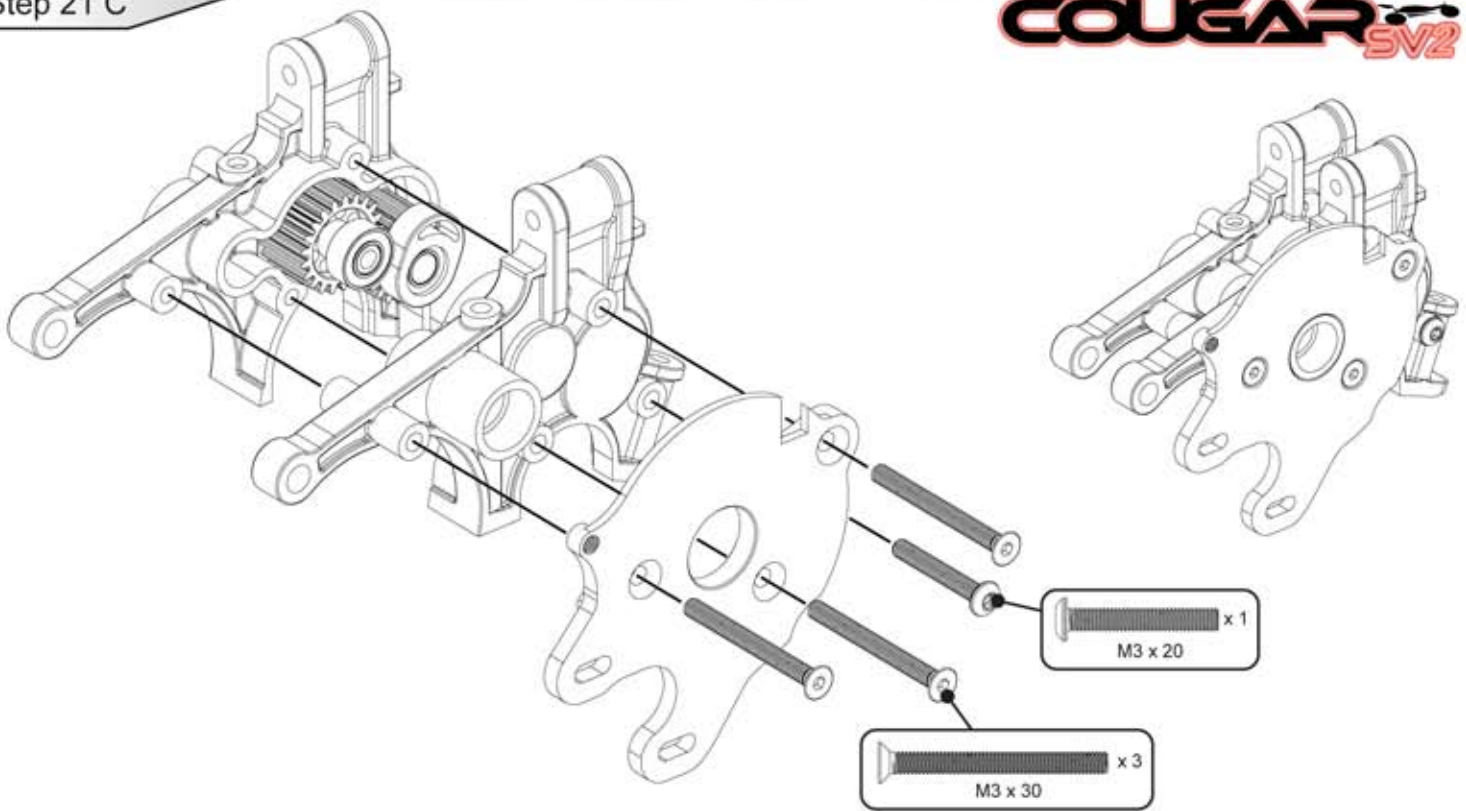
The Eccentrics must fit into the Transmissions housing with no effort you may need to Scalpel the edge of the mouldings to ensure a free fit.

## Step 21 A



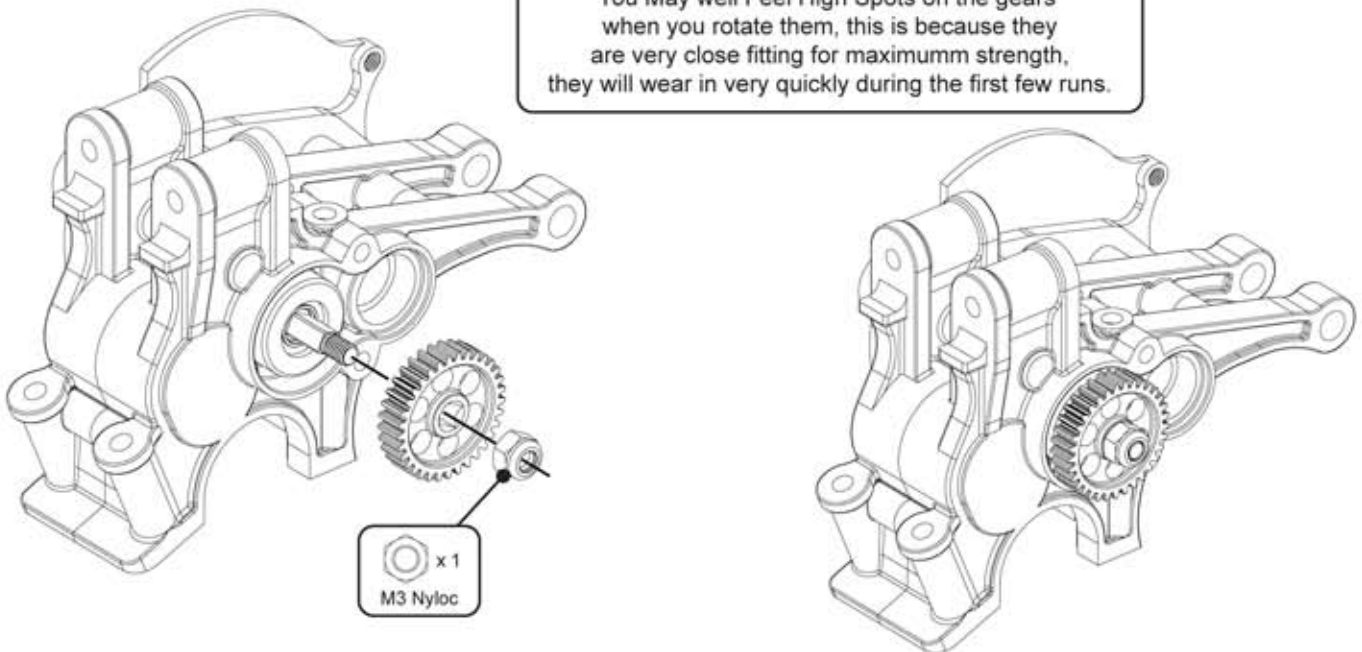
## Step 21 B



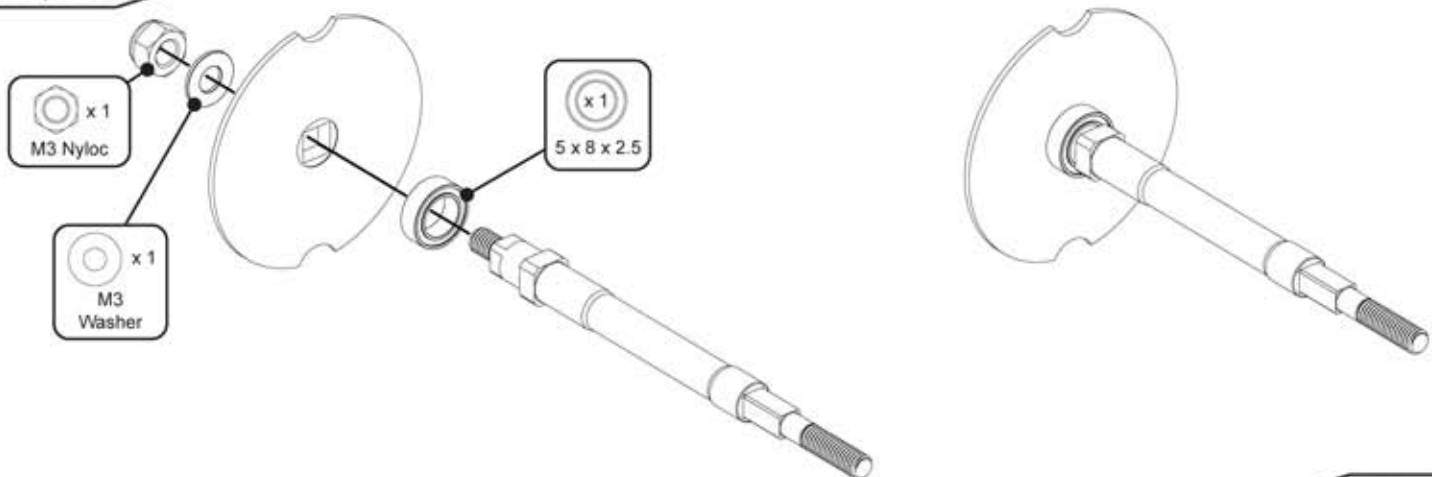


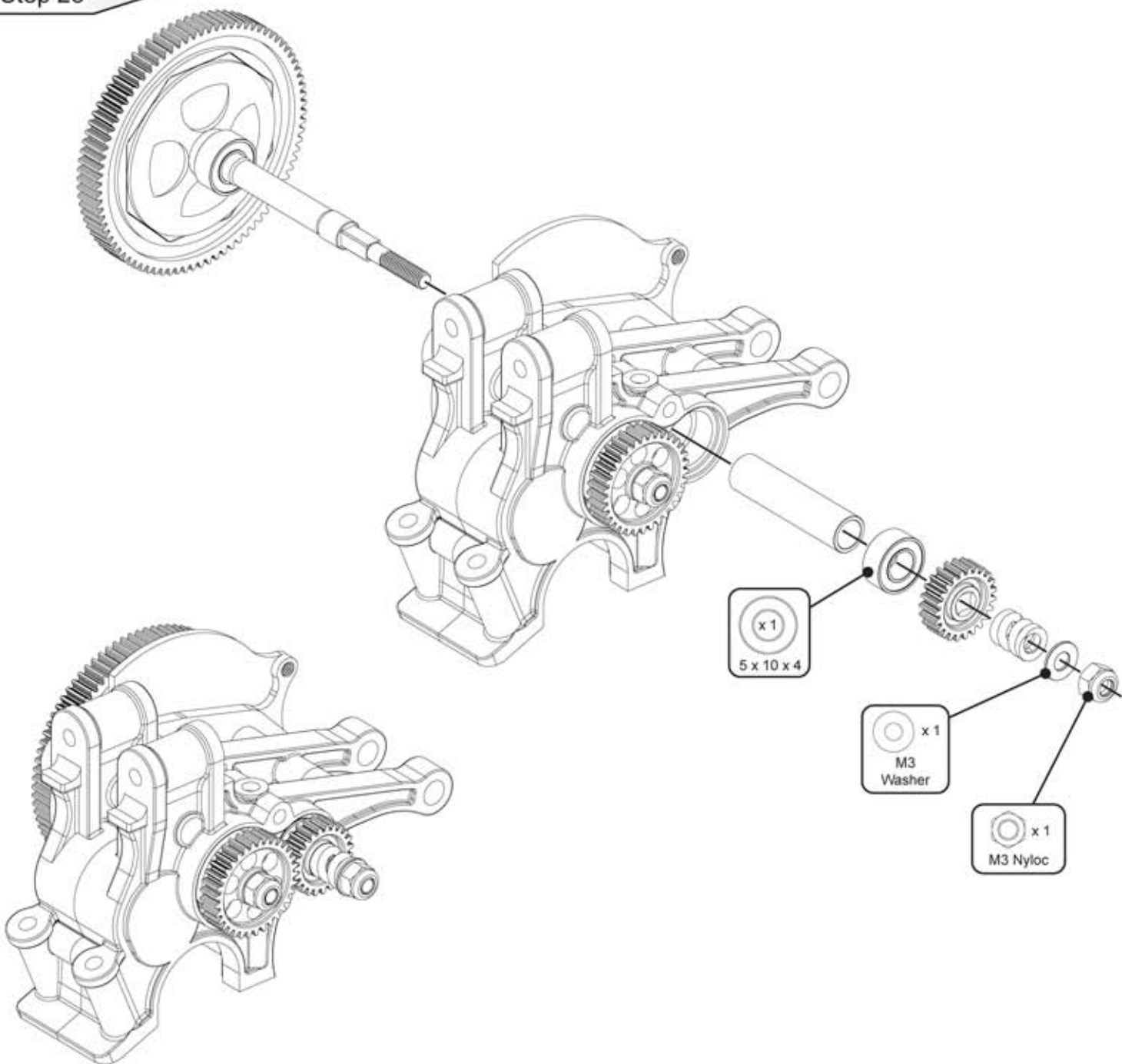
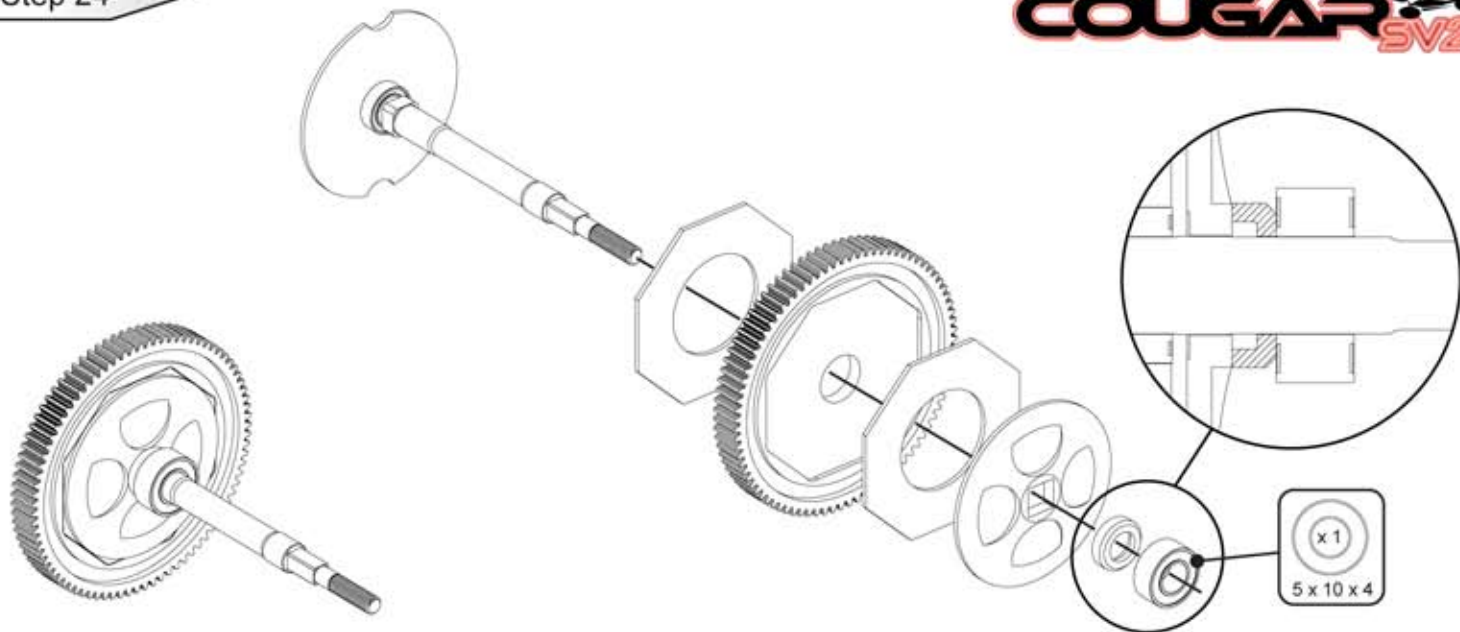
## Step 22

You may well feel high spots on the gears when you rotate them, this is because they are very close fitting for maximum strength, they will wear in very quickly during the first few runs.

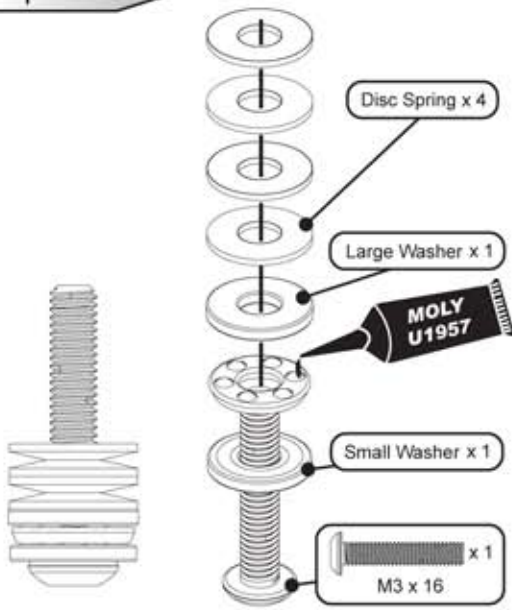


## Step 23

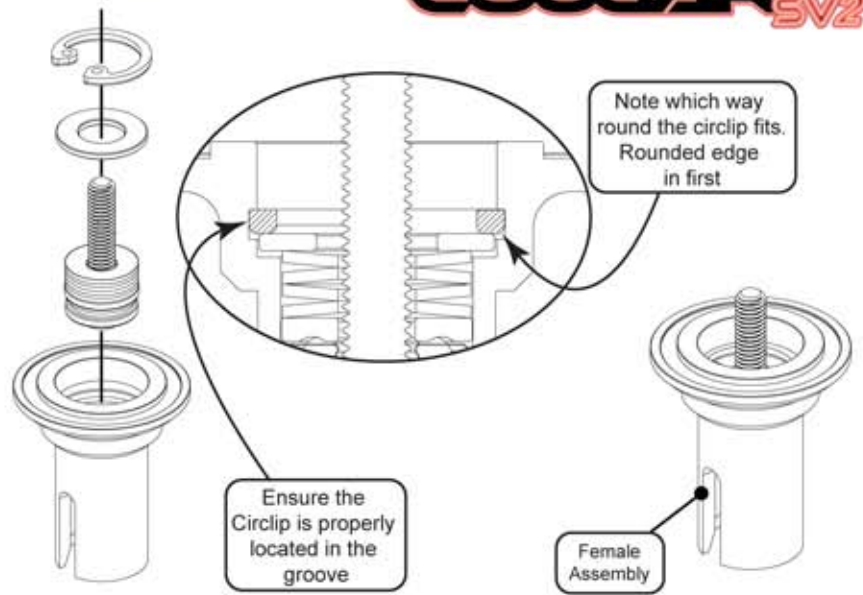




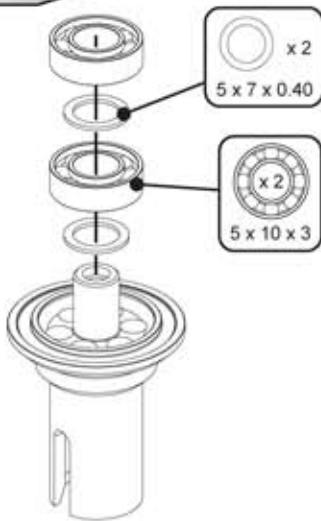
Step 26 A



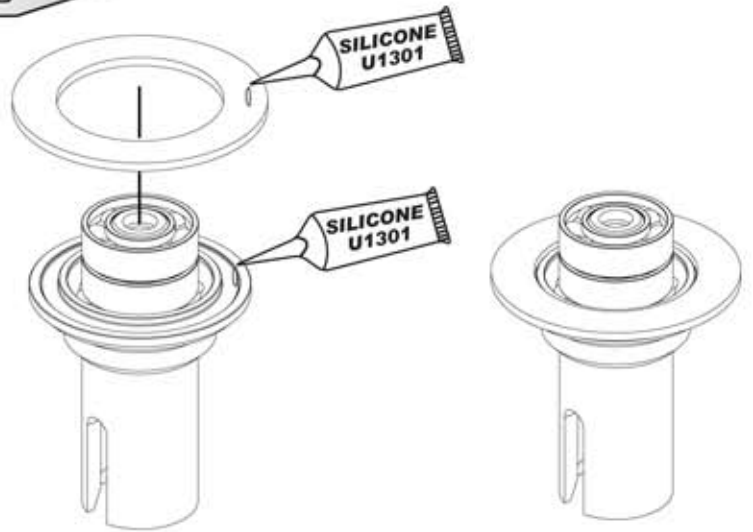
Step 26 B



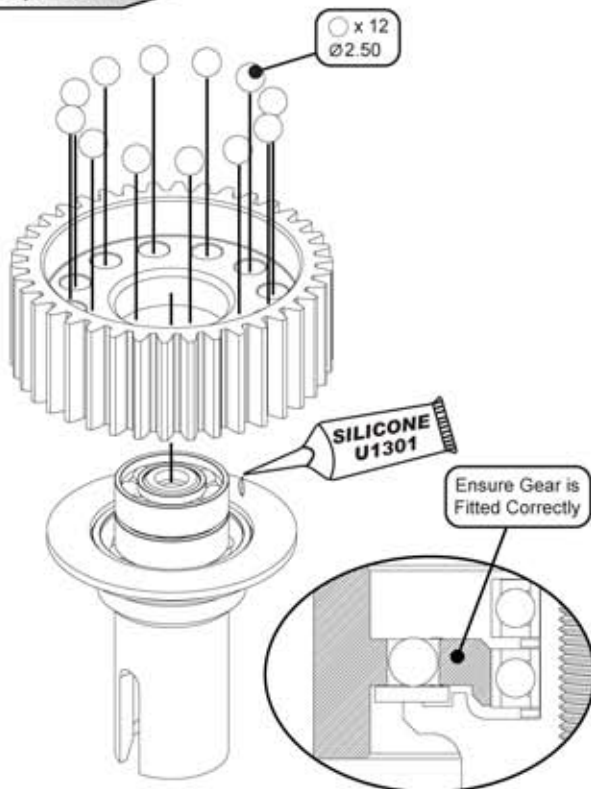
Step 27 A



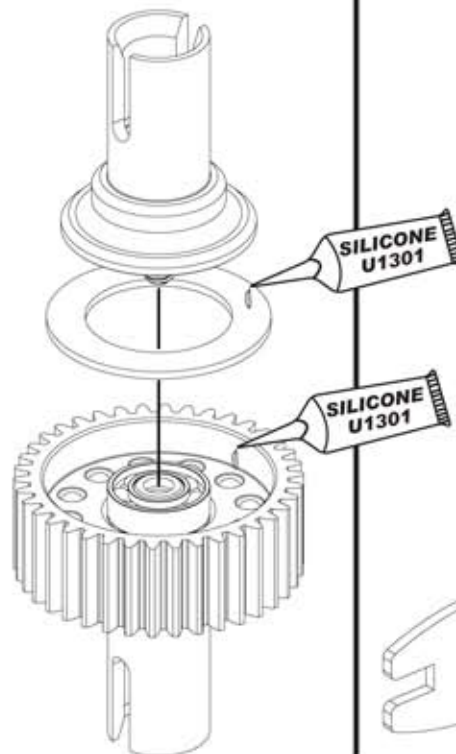
Step 27 B



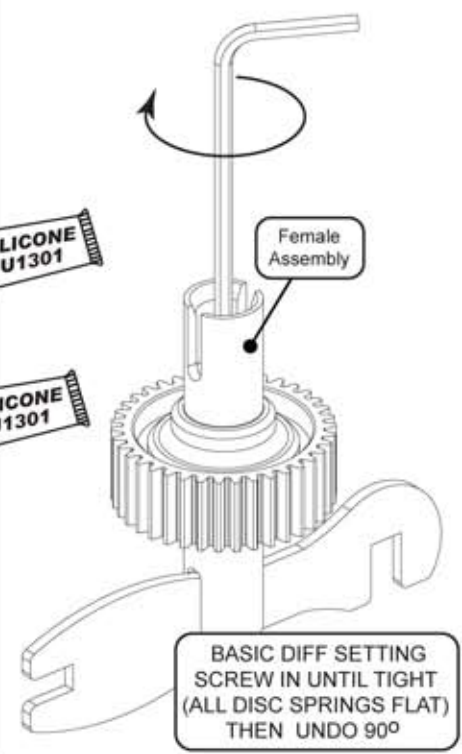
Step 28 A



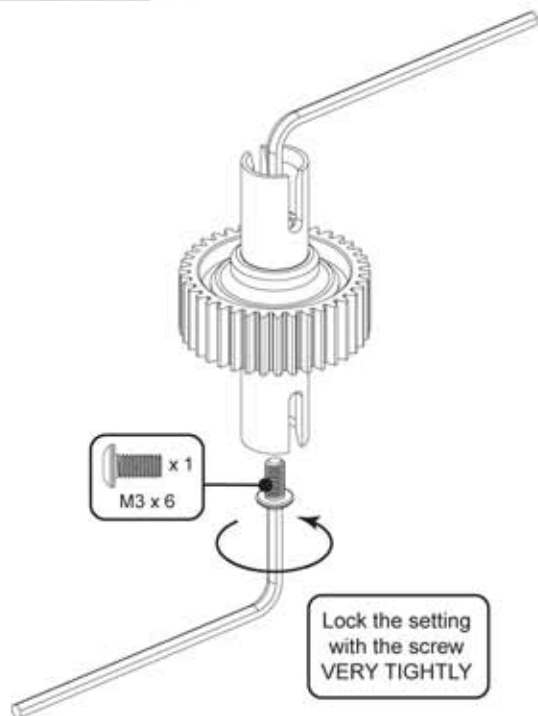
Step 28 B



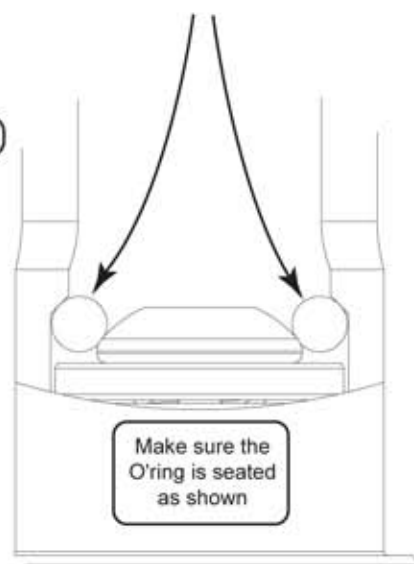
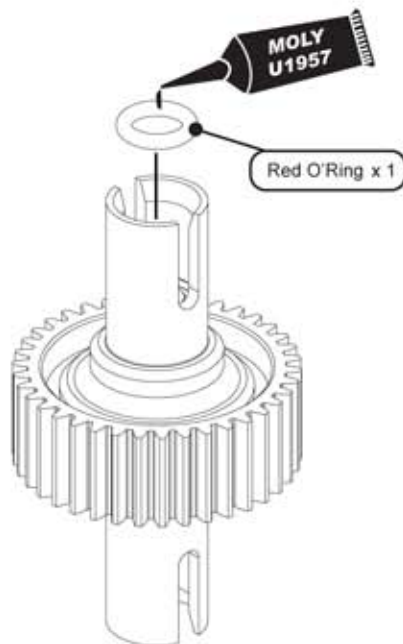
Step 28 C



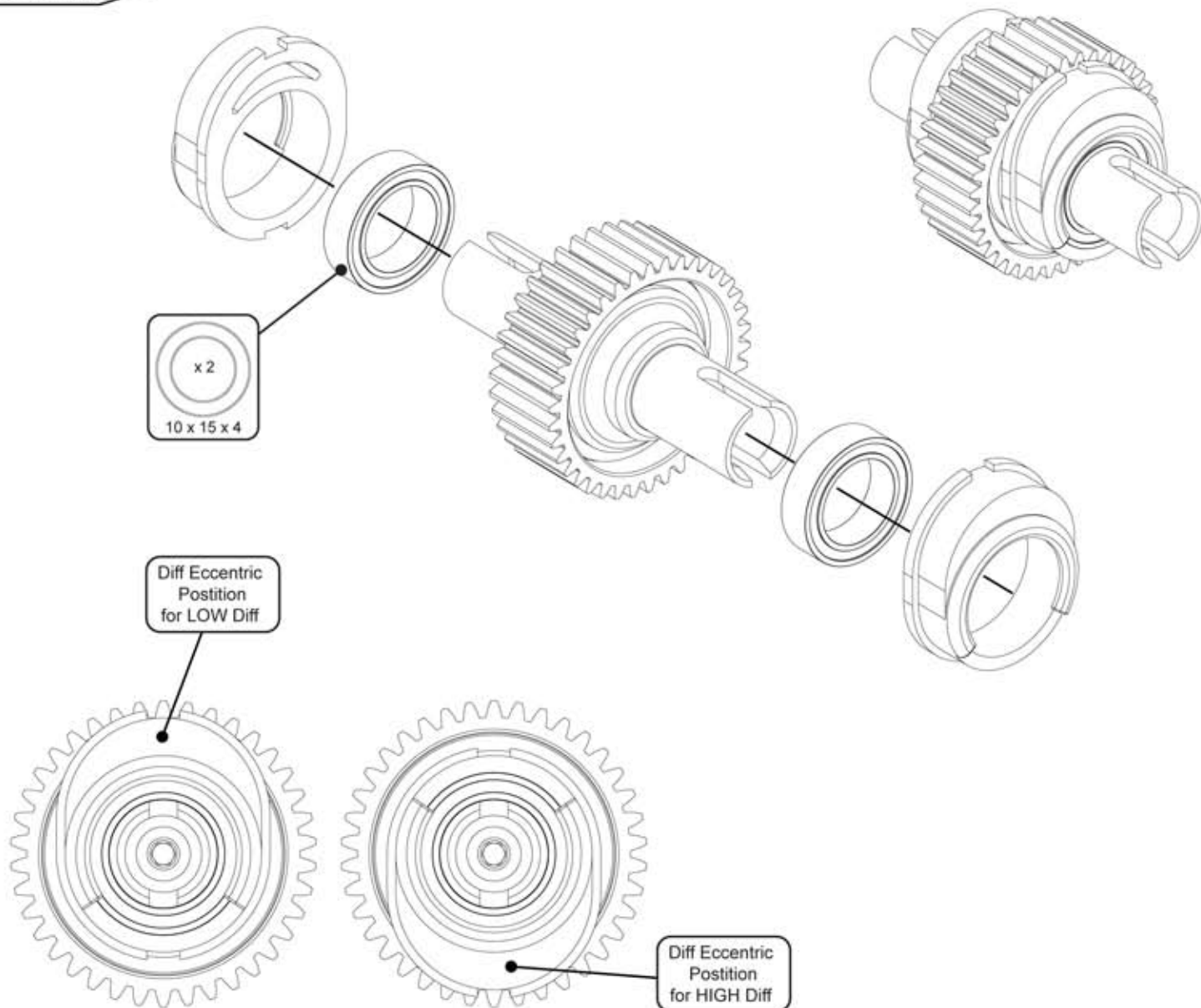
Step 28 D



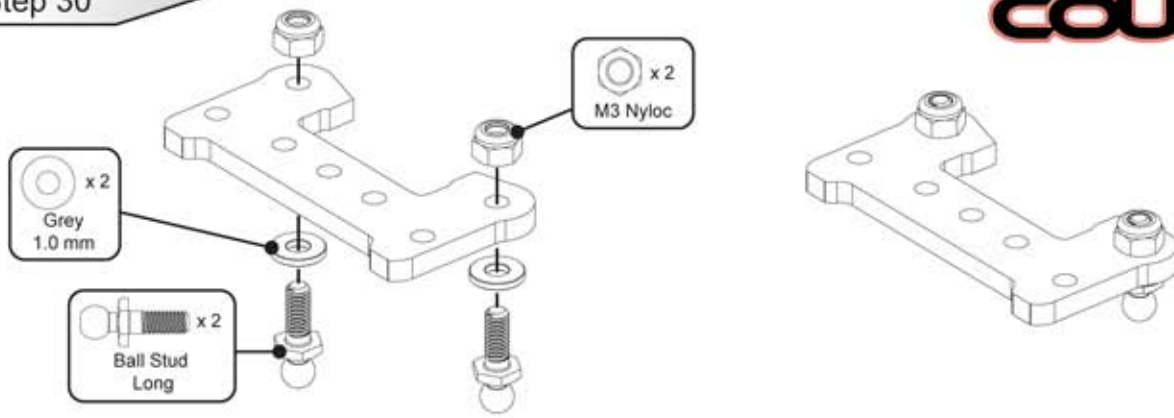
Step 28 E



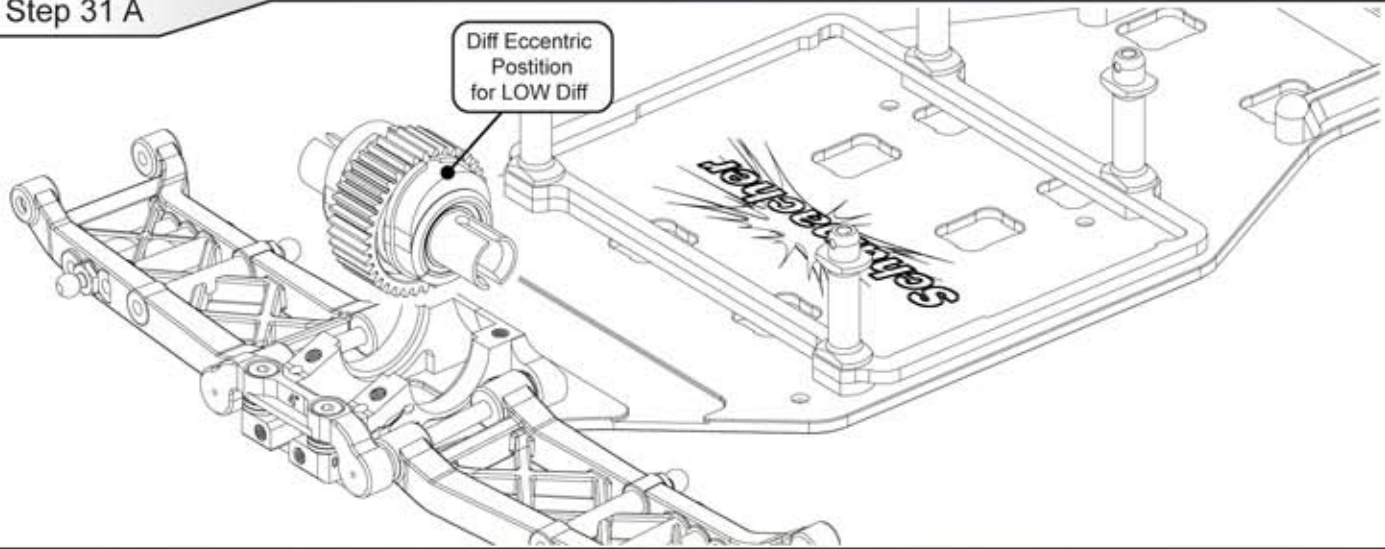
Step 29



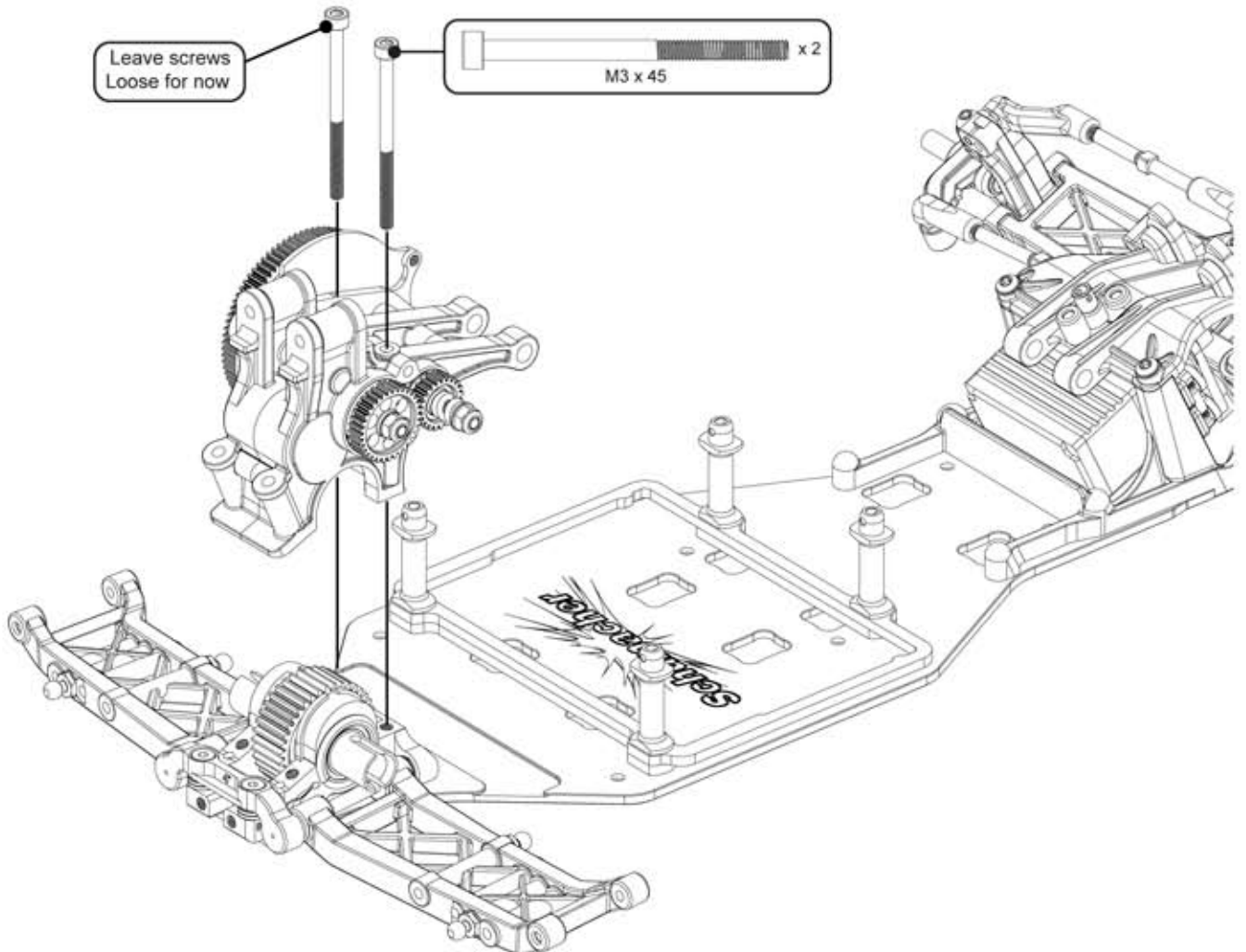


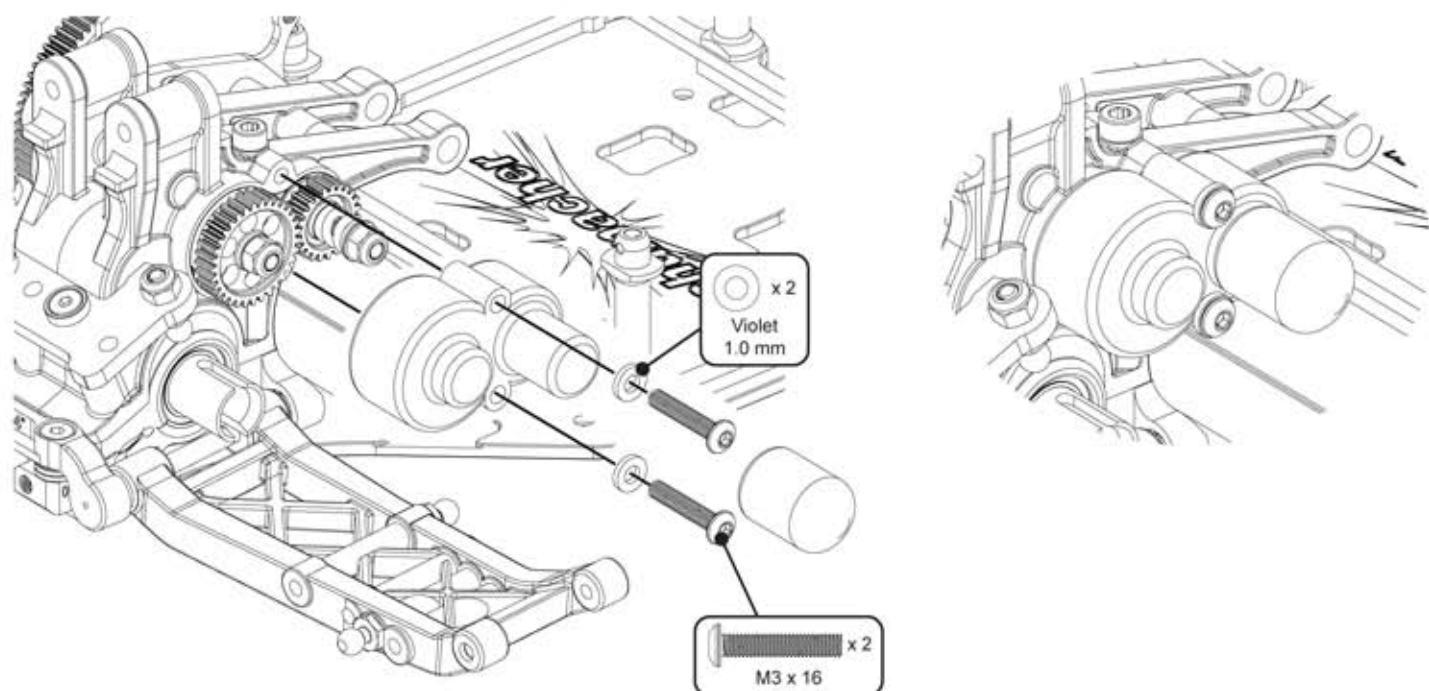
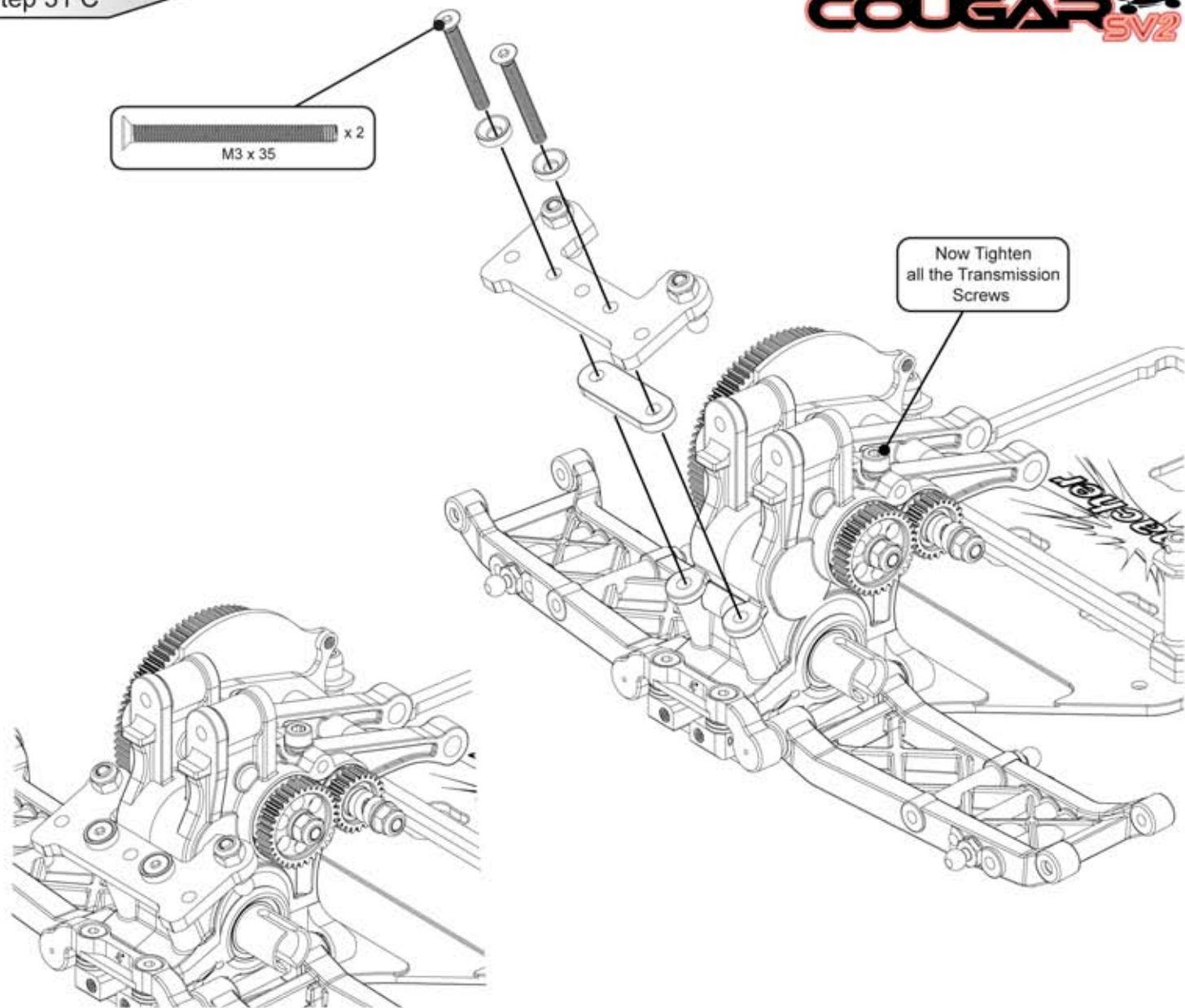


Step 31 A



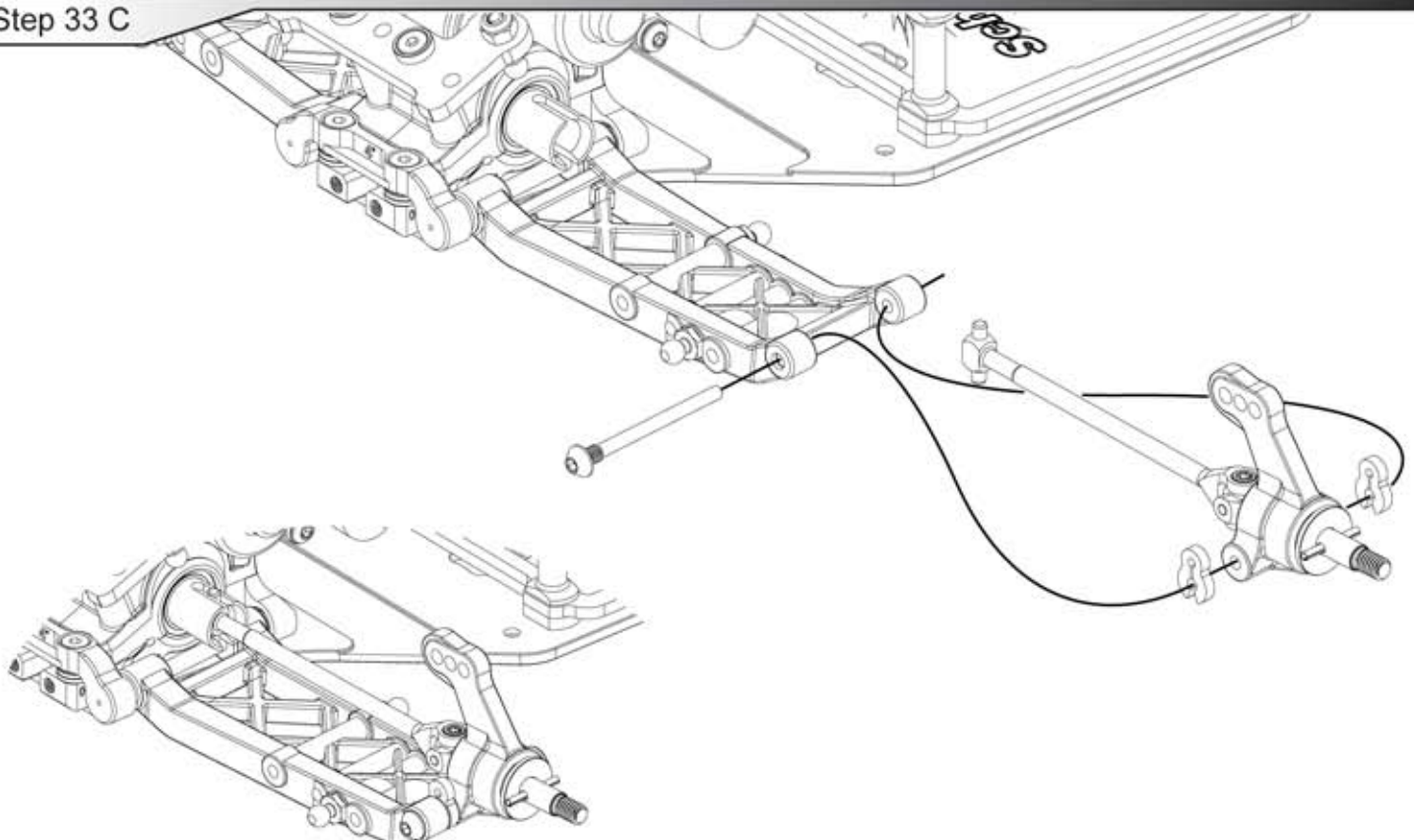
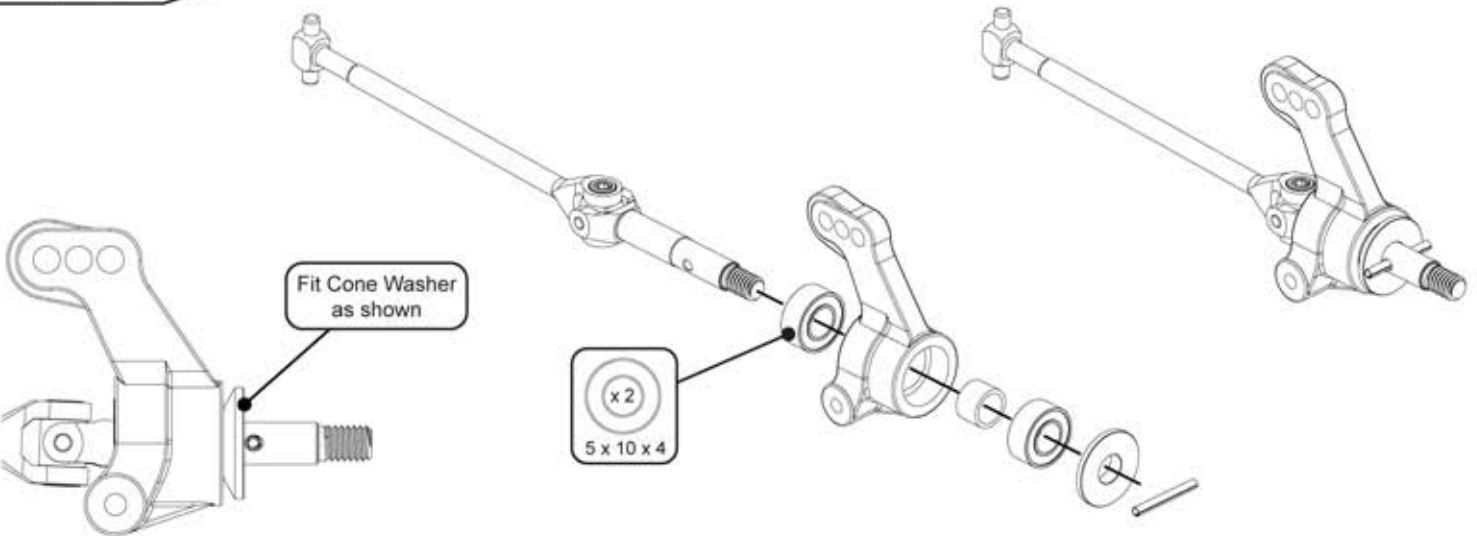
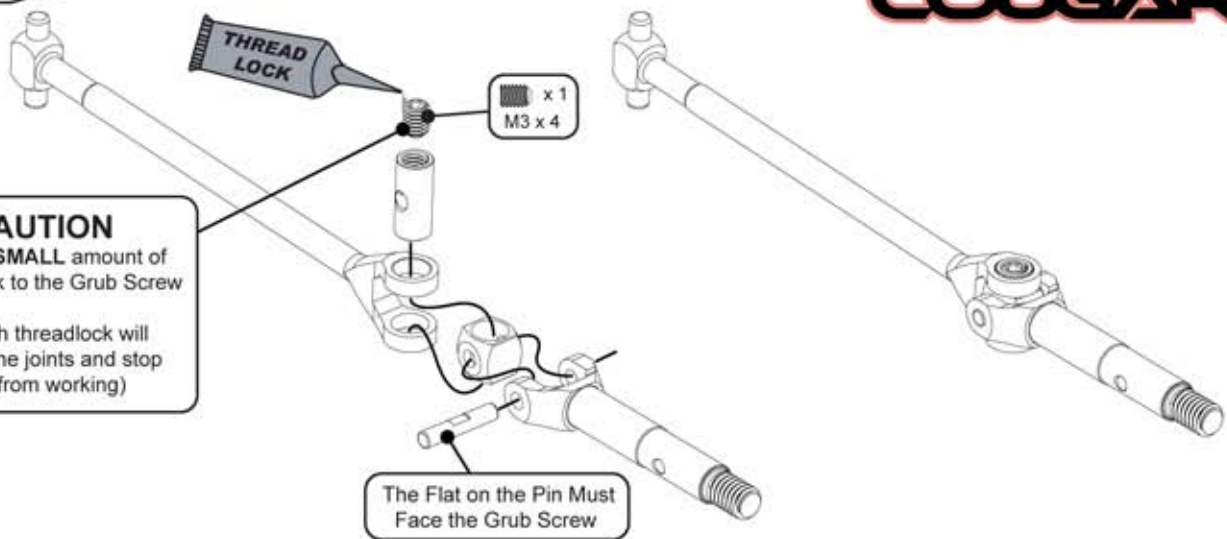
Step 31 B

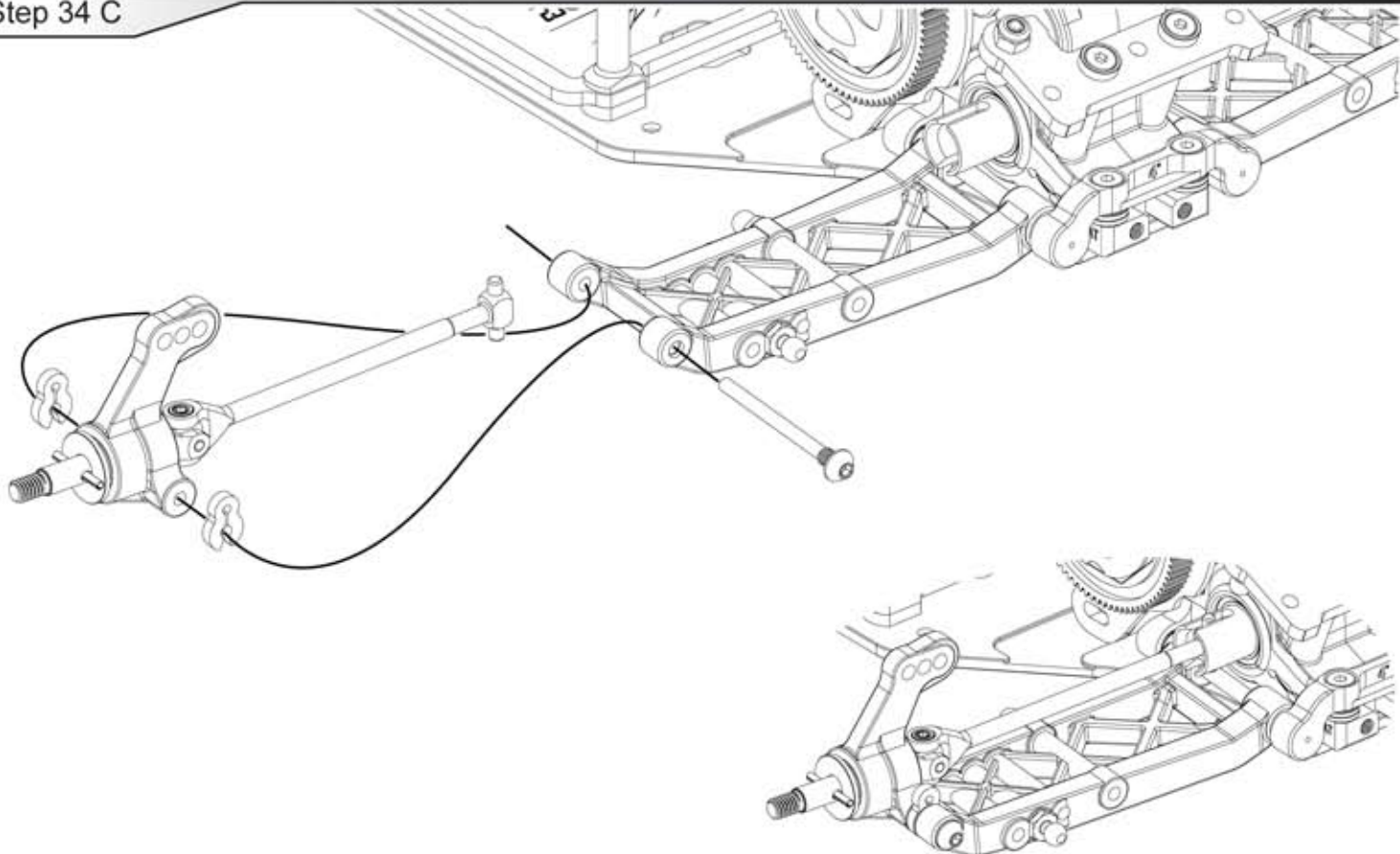
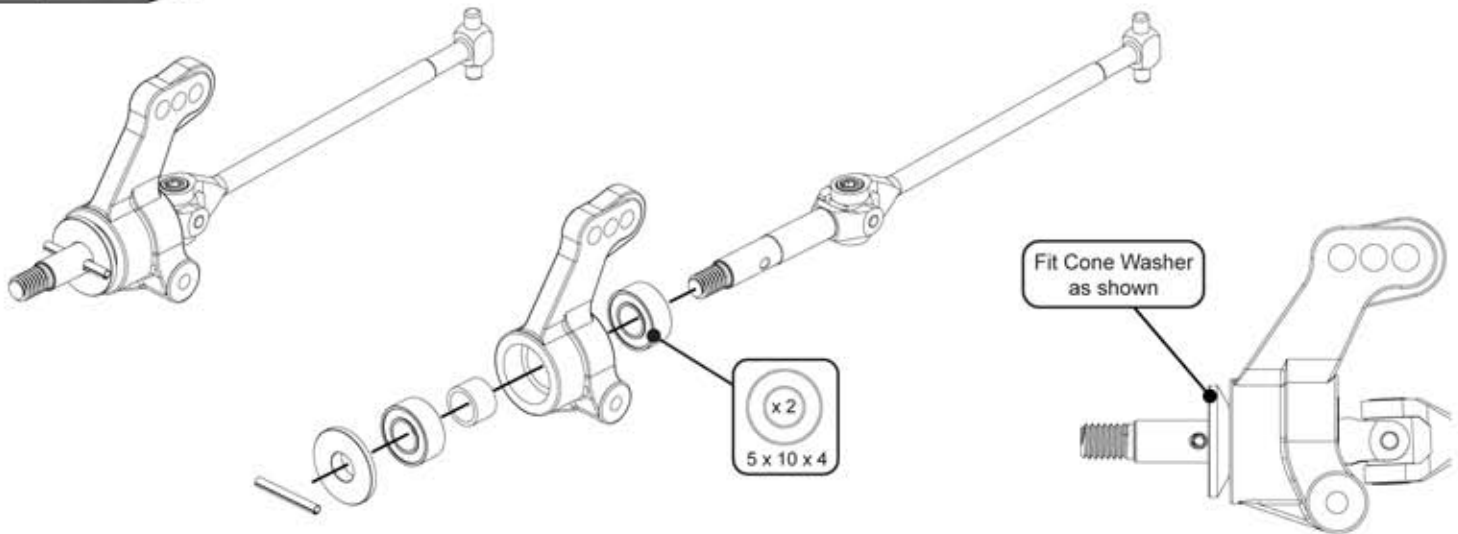
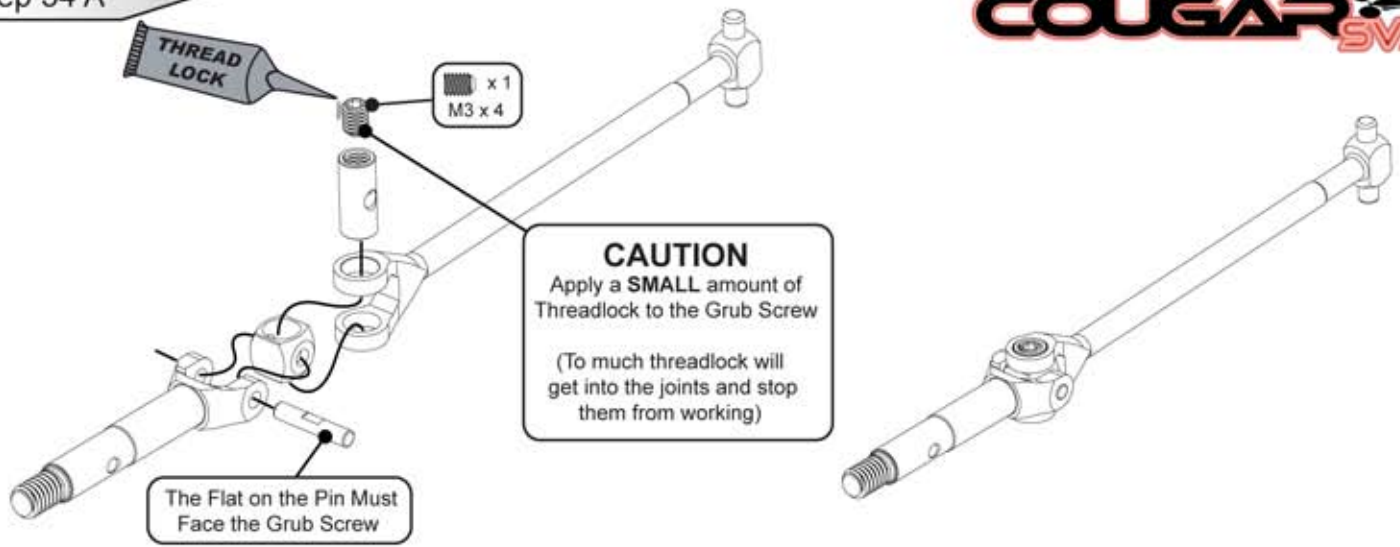


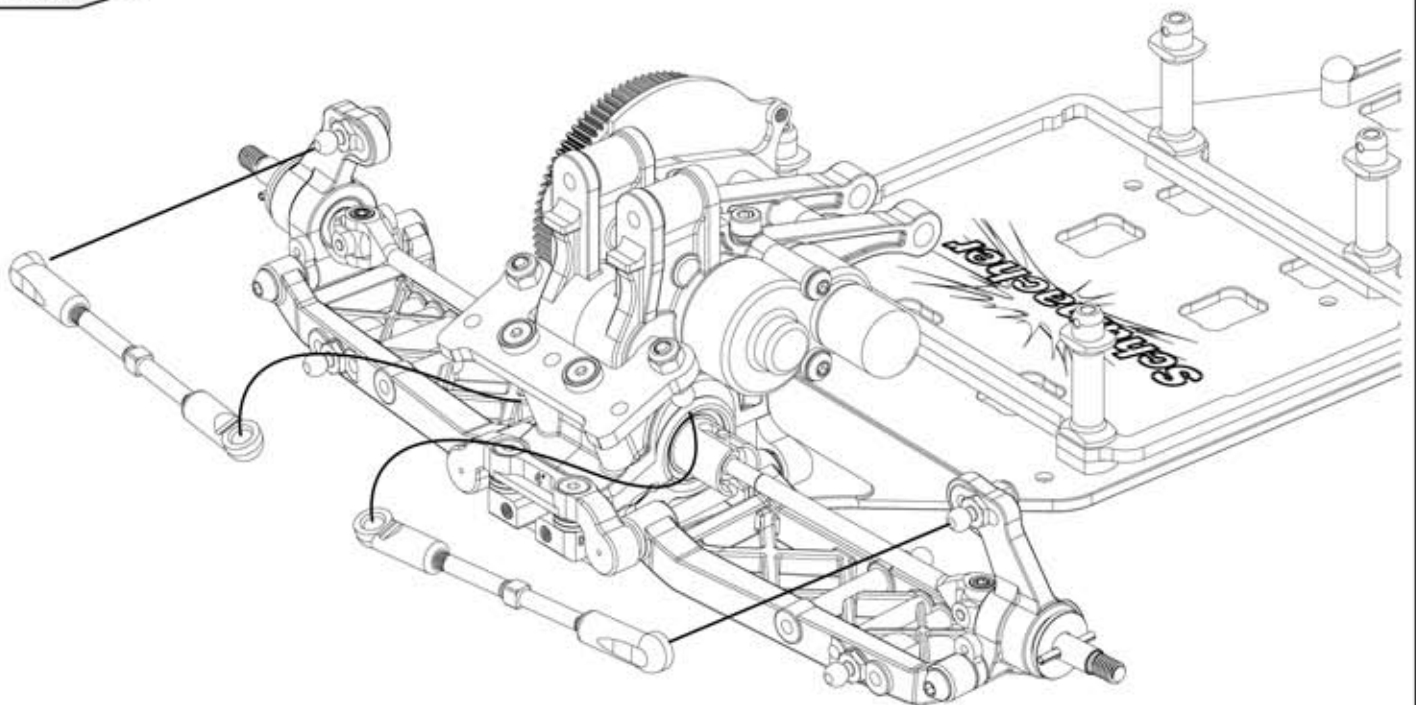
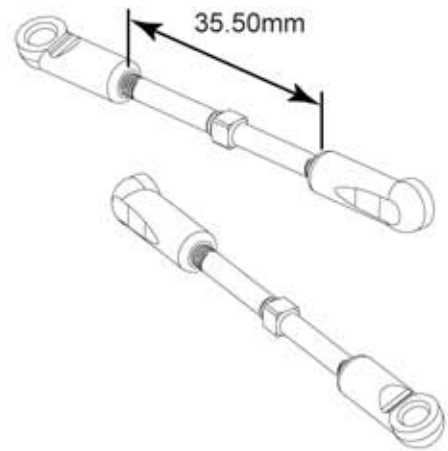
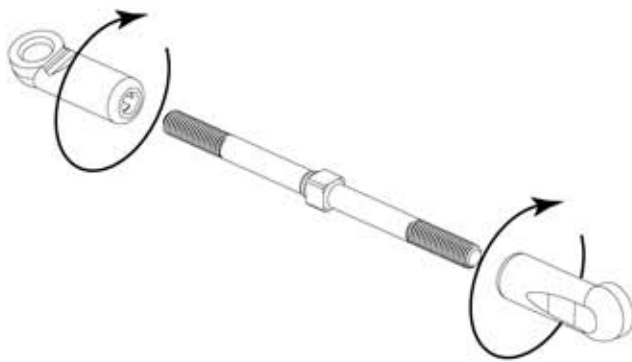
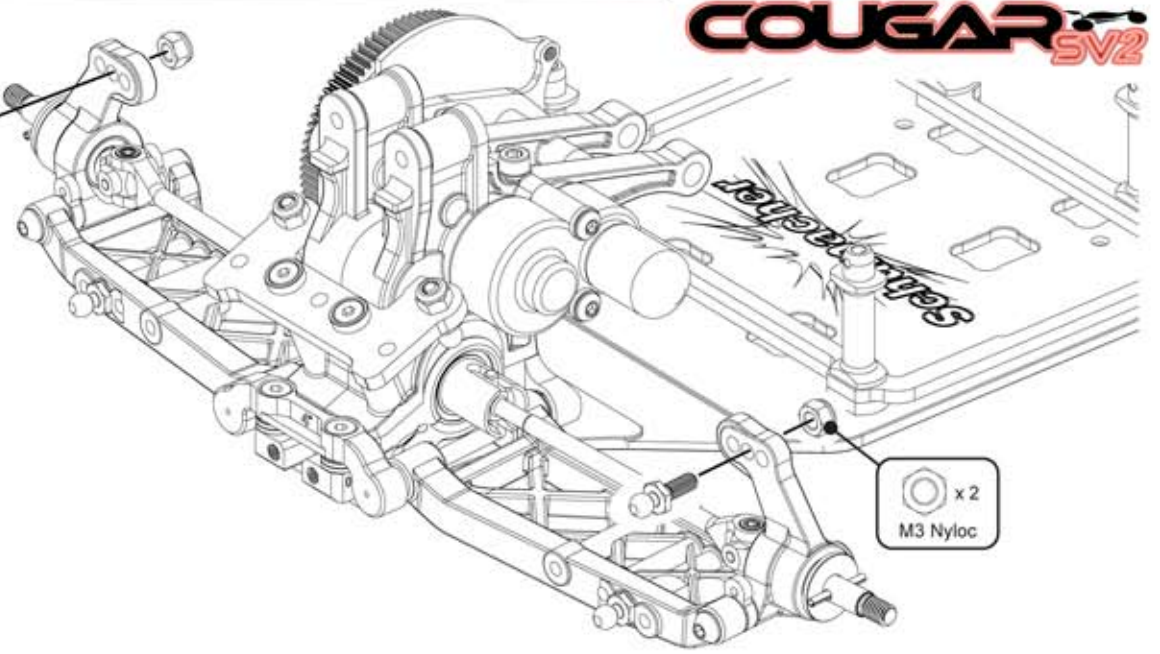
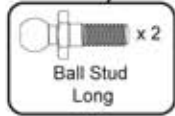


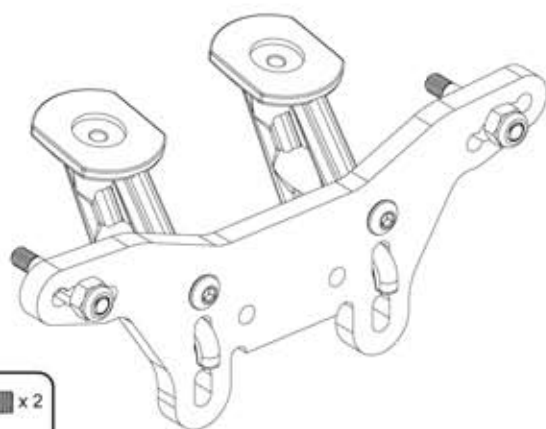
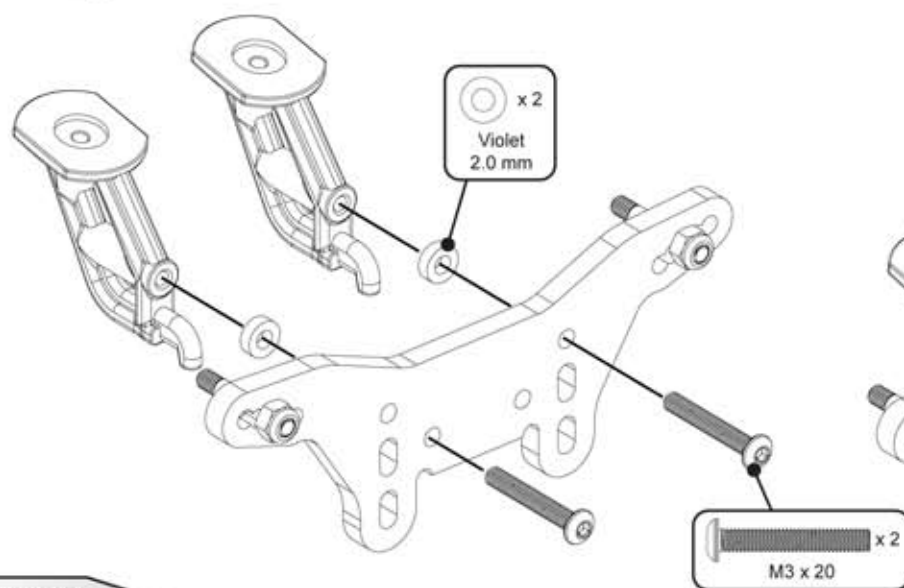
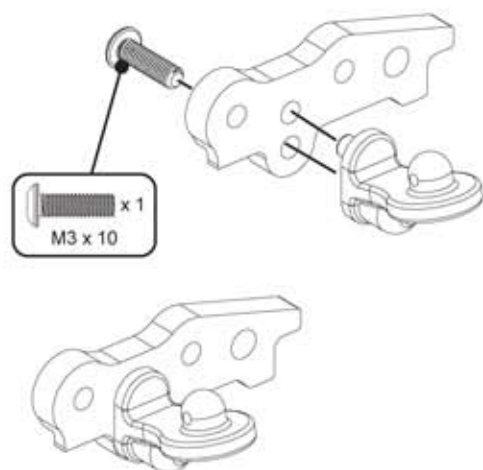
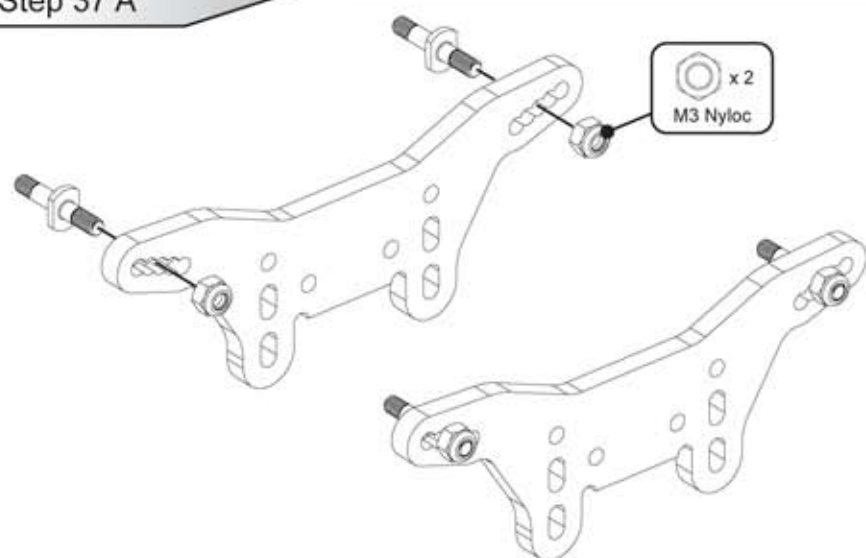
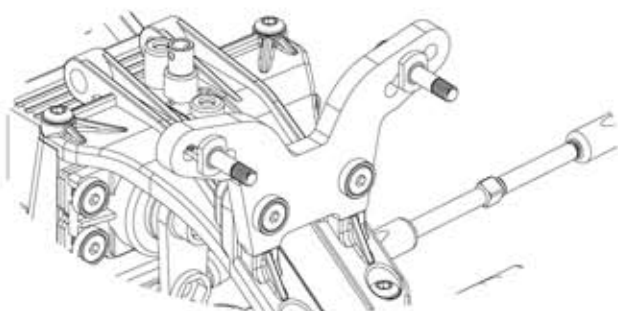
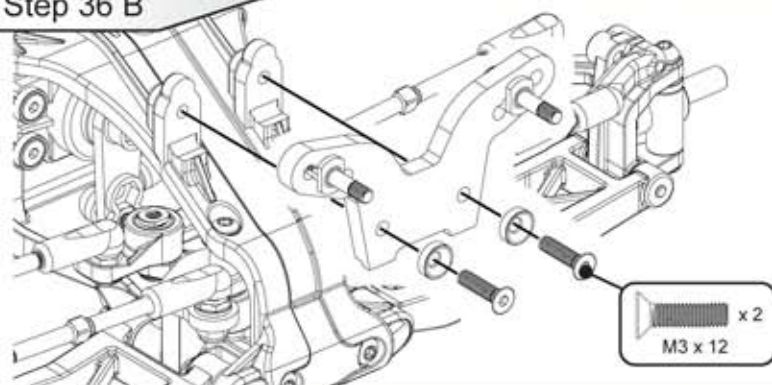
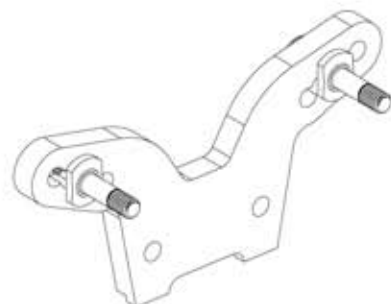
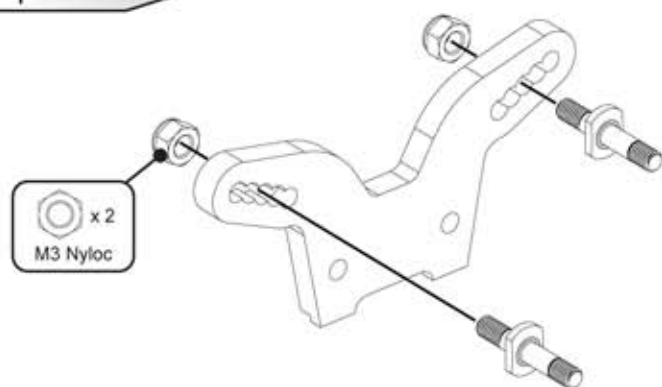
**CAUTION**  
Apply a **SMALL** amount of  
Threadlock to the Grub Screw

(Too much threadlock will  
get into the joints and stop  
them from working)

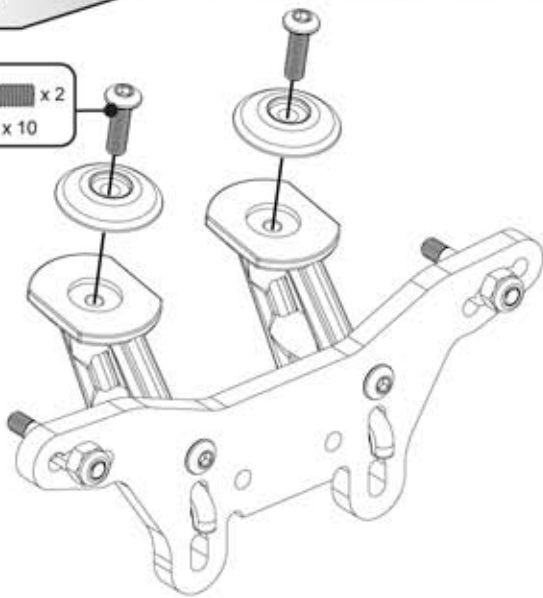






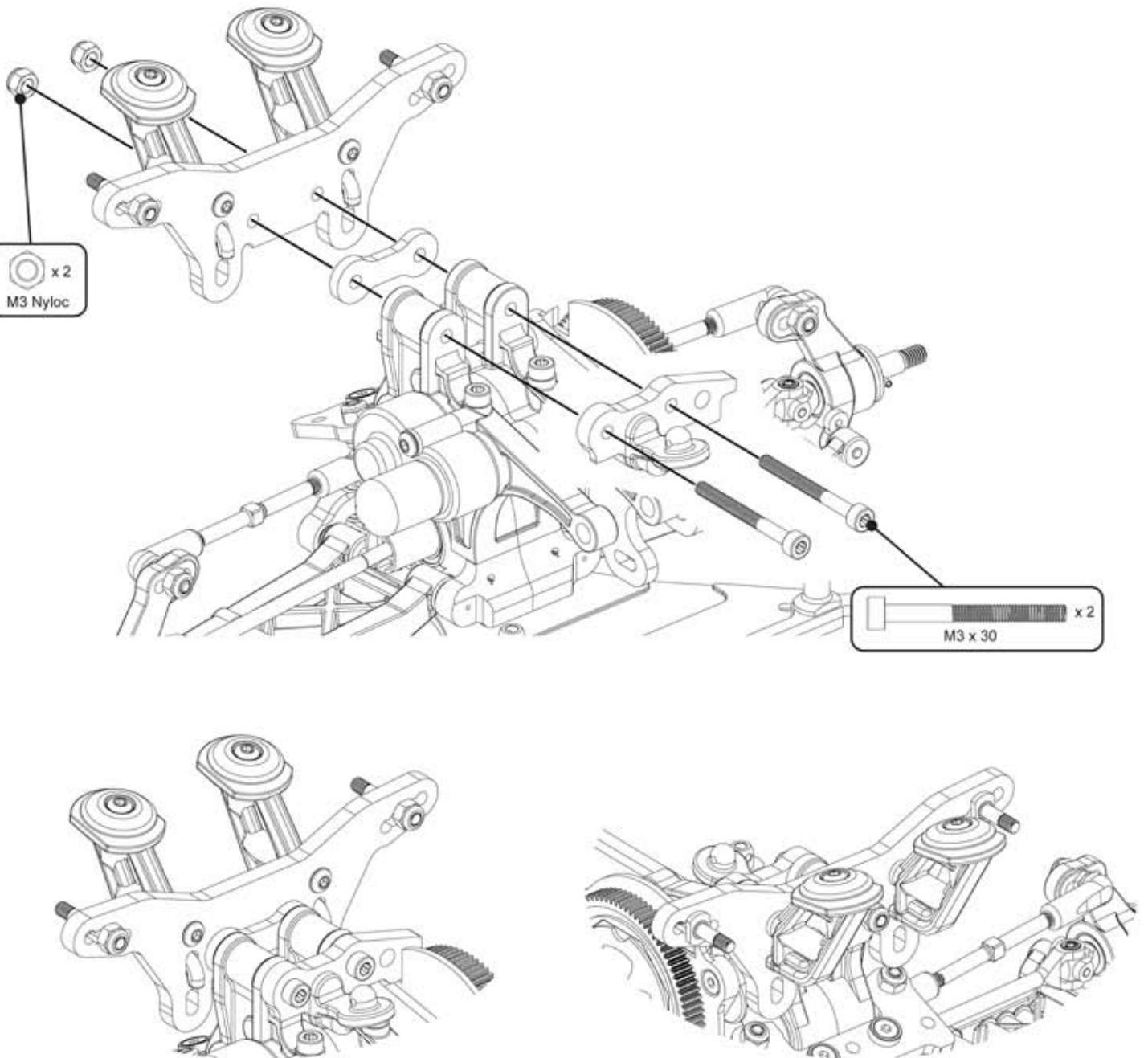


x 2  
M3 x 10



x 2  
M3 Nyloc

x 2  
M3 x 30



- K123** Cougar - SV2 -PRO CF 1-10 Off Road 2WD - Kit  
**K124** Cougar - SV2 -PRO CF 1-10 Off Road 2WD - Assembled

**CHASSIS PARTS**

- U1042 Aerial Mount - Universal  
 U119 Aerial Tube - Pack 4  
 U122 Velcro 1/2metrex16mm.  
 U2231 Servo Horns  
 U3689 Bottom Plate - Cougar SV  
 U3690 Front Bumper - Cougar SV  
 U3691 Servo Spacer - Cougar SV  
 U3692 Top Deck Mounts - Cougar SV  
 U3694 Rear Bumper - Cougar SV  
 U3695 Pivot; Top Deck - Cougar SV pr  
 U3702 Alloy Posts; Saddle LiPo - Cougar SV pk4  
 U3850 Wing Mount - Off Road New  
 U3990 Alloy Chassis - Cougar SV2  
 U3992 Alloy Motor Plate - Cougar SV2  
 U4000 Rear Body Mount - Cougar SV2  
 U4002 C/F Top Deck Cells Forward - SV2  
 U4033 Post Caps - Cougar SV2  
 U4038 Instr Manual - Cougar SV2  
 U4043 Saddle/Shorty C/F Parts - Cougar SV2

**BODY AND DECALS**

- U4003 Decal sheet - Cougar SV2 pk2  
 U4052 Window Mask - Cougar SV2  
 U5106 Long Wing; Max Aero  
 U5109 Bodysell + Decals - Cougar SV2  
 U5110 Undertray - Cougar SV2

**SUSPENSION**

- U2722 Ball Grippa Joints - U/Sh Stud 4prs  
 U2989 Ball Grippa Sockets - (pk 8)  
 U3137 Shock Mounting Post - (pr)  
 U3213 Turnbuckle Adjuster; Gold - 53mm (pr)  
 U3214 Turnbuckle Adjuster; Gold - 60mm (pr)  
 U3311 Axle Spacers - 2prs  
 U3479 Ball Grippa Sockets Short - (pk 8)  
 U3499 Roll Bar Blocks - Mi4 pk4  
 U3706 Rod End Ball + Socket - Cougar SV2 pr  
 U3708 Quick Clip 2.4mm - Cougar SV pk4  
 U3709 Radius Arms - Cougar SV  
 U3710 Centre Track Rod - Cougar SV  
 U3712 Yokes; 0 deg - Cougar SV  
 U3713 Wishbones; Front Kit - Cougar SV  
 U3715 Pivot Pin; Screw Type 25mm pr  
 U3716 Pivot Pin; Screw Type 32mm pr  
 U3717 Steering Pivots - Cougar SV pk4  
 U3718 Pivot Pin; 38mm - Cougar SV  
 U3719 Pivot Pin; 45mm - Cougar SV  
 U3720 Front Axles - Cougar SV pr  
 U3723 Alloy Rear Strap; 4 deg - Cougar SV  
 U3729 WishbonePivot Spheres - Cougar SV pk4  
 U3730 Ball Socket; Offset - Cougar SV  
 U3997 C/F Front Shock Mount - Cougar SV2  
 U3999 C/F Link Mounts; Kit Fr + Rr - Cougar SV2  
 U4001 C/F Rear Shock Mount - Cougar SV2  
 U4027 Front Bulkhead - Cougar SV2  
 U4028 Front Hub Carriers - Cougar SV2  
 U4031 Front Body Post - Cougar SV2  
 U4036 Hub Carrier; Rear - Cat/Cougar SV2 pr  
 U4041 Rear Roll Bar Kit - Cougar SV2  
 U4055 Wishbones; Rear Kit - Cougar SV2  
 U750 Ball Grippa Joints - Short Stud 8prs  
 U851 Ball Grippa Joints - Long Stud 8prs

**SHOCKS**

- U3660 Big Bore Shocks; Med - Assembled  
 U3661 Big Bore Shocks; Long - Assembled

**SHOCKS Cont...**

- U3662 Big Bore Shock Body; Med pr  
 U3663 Big Bore Shock Body; Long pr  
 U3664 Big Bore Shock Cap; Off Road pr  
 U3665 Big Bore Shock Seal Housing pr  
 U3666 Big Bore Shock Adjusting Collar pr  
 U3667 Big Bore Shock; Seal Rebuild Kit - Off Rd pr  
 U3668 Big Bore Shock Rods; Med pr  
 U3669 Big Bore Shock Rods; Long pr  
 U3670 Big Bore Shock; 2 Hole Pistons pr  
 U3671 Big Bore Shock; 4 Hole Pistons pr  
 U3672 Big Bore Shock; 6 Hole Pistons pr  
 U3770 Big Bore Rounded Pistons; 3 Hole pr  
 U3771 Big Bore Rounded Pistons; 5 Hole pr  
 U3937 Shock Mouldings

**SHOCK OILS**

- CR200 CORE R/C Silicone Oil - 100cSt - 60ml  
 CR201 CORE R/C Silicone Oil - 150cSt - 60ml  
 CR202 CORE R/C Silicone Oil - 200cSt - 60ml  
 CR203 CORE R/C Silicone Oil - 250cSt - 60ml  
 CR204 CORE R/C Silicone Oil - 300cSt - 60ml  
 CR205 CORE R/C Silicone Oil - 350cSt - 60ml  
 CR206 CORE R/C Silicone Oil - 400cSt - 60ml  
 CR207 CORE R/C Silicone Oil - 450cSt - 60ml  
 CR208 CORE R/C Silicone Oil - 500cSt - 60ml  
 CR209 CORE R/C Silicone Oil - 550cSt - 60ml  
 CR210 CORE R/C Silicone Oil - 600cSt - 60ml  
 G010 Pure Silicone Shock Oil - 10w  
 G015 Pure Silicone Shock Oil - 15w  
 G020 Pure Silicone Shock Oil - 20w  
 G025 Pure Silicone Shock Oil - 25w  
 G030 Pure Silicone Shock Oil - 30w  
 G035 Pure Silicone Shock Oil - 35w  
 G040 Pure Silicone Shock Oil - 40w  
 G045 Pure Silicone Shock Oil - 45w  
 G050 Pure Silicone Shock Oil - 50w

**SHOCK SPRINGS**

- U3673 Big Bore Spring Tuning Set; Med 7prs  
 U3674 Big Bore Spring Tuning Set; Long 6prs  
 U3675 Big Bore Spring; Med - 2.0 pr  
 U3676 Big Bore Spring; Med - 2.5 pr  
 U3677 Big Bore Spring; Med - 3.0 pr  
 U3678 Big Bore Spring; Med - 3.5 pr  
 U3679 Big Bore Spring; Med - 4.0 pr  
 U3680 Big Bore Spring; Med - 4.5 pr  
 U3681 Big Bore Spring; Med - 5.0 pr  
 U3682 Big Bore Spring; Long - 1.6 pr  
 U3683 Big Bore Spring; Long - 2.0 pr  
 U3684 Big Bore Spring; Long - 2.5 pr  
 U3685 Big Bore Spring; Long - 3.0 pr  
 U3686 Big Bore Spring; Long - 3.5 pr  
 U3687 Big Bore Spring; Long - 4.0 pr

**TRANSMISSION**

- U3334 Cone; Rear Wheels pr  
 U3335 Covers; Idler Gears - CAT SX  
 U3348 Gear; CNC 80t Spur - Slipper  
 U3349 Gear; CNC 81t Spur - Slipper  
 U3350 Gear; CNC 82t Spur - Slipper  
 U3351 Gear; CNC 83t Spur - Slipper  
 U3361 Roll Pins Set 2x3/8+4x1/2 - CAT SX  
 U3364 Slipper Pad; PTFE Octagon pr  
 U3410 Sealing Cap; Slipper Adjust - CAT SX pk3  
 U3704 Thrust Bearing F3x8G SiNi Balls  
 U3740 Diff Washers; 18mm - Cougar SV  
 U3772 Alloy Trans Hsg 4.5deg; LH - Cougar SV  
 U3773 Alloy Trans Hsg 4.5deg; RH - Cougar SV



**TRANSMISSION Cont...**

U3862 Gear; Steel 33T - Cat SX3/Cougar SV2  
 U3865 Gear; Steel 23T - Cat SX3/Cougar SV2  
 U3993 Axle - Cougar SV2  
 U3996 Bone - Cougar SV2  
 U4004 Diff Gear; 38T CNC - Cougar SV2  
 U4005 Diff Output; Female - Cougar SV2  
 U4006 Diff Output; Male - Cougar SV2  
 U4007 Diff; Assembled Pro Spec - Cougar SV2  
 U4025 Driveshaft - Cougar SV2 (pr)  
 U4026 Eccentrics; Diff + Idler - Cougar SV2  
 U4032 Transmission Pivot Set - Cougar SV2  
 U4037 Idler Gear + Shaft - Cougar SV2  
 U4039 Layshaft 21T - Cougar SV2  
 U4040 Diff Screw Set Cougar SV2  
 U4044 Slipper Set - Cougar SV2  
 U4045 Spacers; Slipper - Cougar SV2  
 U4046 Spur Gear Cover - Cougar SV2  
 U4048 Transfer Shaft - Cougar SV2  
 U4049 Transmission Housings - Cougar SV2  
 U4050 UJ Parts - Cougar SV2

**PINIONS**

U2305 16T Steel Pinion - 48 D.P.  
 U2306 17T Steel Pinion - 48 D.P.  
 U2307 18T Steel Pinion - 48 D.P.  
 U2308 19T Steel Pinion - 48 D.P.  
 U2309 20T Steel Pinion - 48 D.P.  
 U2310 21T Steel Pinion - 48 D.P.  
 U2311 22T Steel Pinion - 48 D.P.  
 U2312 23T Steel Pinion - 48 D.P.  
 U2313 24T Steel Pinion - 48 D.P.  
 U2314 25T Steel Pinion - 48 D.P.  
 U2315 26T Steel Pinion - 48 D.P.  
 U2316 27T Steel Pinion - 48 D.P.  
 U2318 29T Steel Pinion - 48 D.P.  
 U3414 Pinion; Hard Alloy 48dp - 14T  
 U3415 Pinion; Hard Alloy 48dp - 15T  
 U3416 Pinion; Hard Alloy 48dp - 16T  
 U3417 Pinion; Hard Alloy 48dp - 17T  
 U3418 Pinion; Hard Alloy 48dp - 18T  
 U3419 Pinion; Hard Alloy 48dp - 19T  
 U3420 Pinion; Hard Alloy 48dp - 20T  
 U3421 Pinion; Hard Alloy 48dp - 21T  
 U3422 Pinion; Hard Alloy 48dp - 22T  
 U3423 Pinion; Hard Alloy 48dp - 23T  
 U3424 Pinion; Hard Alloy 48dp - 24T  
 U3425 Pinion; Hard Alloy 48dp - 25T  
 U3426 Pinion; Hard Alloy 48dp - 26T  
 U3427 Pinion; Hard Alloy 48dp - 27T  
 U3428 Pinion; Hard Alloy 48dp - 28T  
 U3429 Pinion; Hard Alloy 48dp - 29T  
 U3430 Pinion; Hard Alloy 48dp - 30T  
 U3431 Pinion; Hard Alloy 48dp - 31T  
 U3432 Pinion; Hard Alloy 48dp - 32T

**BEARINGS AND GREASE**

U1301 Silicone Diff Lube - Pot  
 U1411 Ball Bearing - 4x8x3 Shielded. (pr)  
 U1957 Moly Axle Grease - Pot  
 U2148 Ball Bearing - 5x10x4 Shielded (pr)  
 U2459 Diff Balls; T/C 2.5mm pk12  
 U2698 Ball Bearing - 5x10x4 Rubber Sealed. (pr)  
 U2699 Ball Bearing - 10x15x4 - Rubber Sealed. (pr)  
 U2862 Ball Bearing - 5x10x4 Cerramic. (pr)  
 U3016 Ball Bearing - 10x15x4 - Shielded. (pr)  
 U3017 Ball Bearind - 10x15x4 - Cerramic. (pr)  
 U3019 Diff Balls; Ceramic Nitride 2.5mm (pk12)  
 U3075 Ball Bearing - 4x8x3 Rubber Sealed. (pr)

**BEARINGS AND GREASE Cont...**

U3136 Ball Bearing - 5x8x2.5 - Shielded. (pr)  
 U3386 Ball Bearing - 4x8x3 Cerramic. (pr)  
 U3737 Ball Bearing 3/16x3/8 Shielded. (pr)  
 U3855 Ball Bearing - 5x10 Open (pr)  
 U3994 Ball Bearing 3/16x3/8 Rubber Sealed. (pr)

**SPEED PACKS**

CR024 CORE RC - Serrated M4 Steel Wheel Nut pk4  
 U1544 SPEED PACK - Short M3; Cap Hd  
 U1545 SPEED PACK - M3 Cap Hd 16;20mm  
 U1546 SPEED PACK - M3 Cap Hd 25;30;35;45mm  
 U1547 SPEED PACK - M3 Nuts  
 U1548 SPEED PACK - M3 Washers  
 U1550 SPEED PACK - Socket Wrenches (pk3)  
 U1551 SPEED PACK - E Clips -2 x 8pcs  
 U1552 SPEED PACK - R Clips  
 U1606 SPEED PACK - Servo Tape  
 U2128 SPEED PACK - Grub-Set Screws M3 M4  
 U2207 SPEED PACK - M3x35 Csk + Nuts  
 U2356 SPEED PACK - M3x16-30 Csk Screws (pk12)  
 U2760 SPEED PACK - M3 Button Hd; 4 to 20  
 U2858 Alloy M3x6 Spacer Set;0.5;1;2;3mm - 16pcs  
 U2947 SPEED PACK - M2.5 Washers (pk8)  
 U2988 M3 Csk Washers - Purple Alloy (pk10)  
 U3022 SPEED PACK - M3x8 Csk Allen Hi-T  
 U3023 SPEED PACK - M3x10 Csk Allen Hi-T  
 U3024 SPEED PACK - M3x12 Csk Allen Hi-T  
 U3131 Alloy Spacers M3x7mm 0.5;1;2mm (pk18)  
 U3572 SPEED PACK - M3x14 Grub Srew pk4  
 U3753 SPEED PACK - M2.5x6 Button Hd pk8  
 U3754 SPEED PACK - M2.5x10 Csk Hd pk8  
 U3755 SPEED PACK - M3x16 HT Button Hd

**SPEED SECRETS**

CR035 CORE RC - Serrated Alloy M4 Nuts; Blue pk 4  
 CR036 CORE RC - Serrated Alloy M4 Nuts; Purple pk 4  
 CR043 CORE RC - Silver X-Weights 16pcs  
 CR058 CORE RC - Black X-Weights 16pcs  
 MR-CSOFFROAD MR33 Car Stand Off Road  
 S500B Schumacher BANNER 6x3ft  
 U1573 Titanium Turnbuckle; purple - 53mm (pr)  
 U1574 Titanium Turnbuckle; purple - 60mm (pr)  
 U1954 Thrust Bearing F3x8G Super Pro  
 U3605 Alloy Rear Hubs; 1 deg - CAT/Cougar SV  
 U3611 Alloy Spring Seat - All shock types pr  
 U3701 Alloy Posts; Stick LiPo - Cougar SV pk2  
 U3722 Alloy Rear Strap; 3 deg - Cougar SV  
 U3724 Alloy Rear Strap; 5 deg - Cougar SV  
 U3727 Forward Shock Conversion Kit - Cougar SV  
 U3758 Yokes; 5 deg - Cougar SV  
 U3782 HD Diaphragm - pk4  
 U3861 Gear; Steel 35T - Cat SX3/Cougar SV2  
 U3863 Gear ; Steel 31T - Cat SX3/Cougar SV2  
 U3864 Gear; Steel 25T - Cat SX3/Cougar SV2  
 U3866 Gear; Steel 21T - Cat SX3/Cougar SV2  
 U3929 Alloy Yokes 7.5 Deg - Cougar  
 U3934 Hub Carrier; Zero Trail - Cougar SV  
 U3991 Alloy Gearbox Cases - Cougar SV2  
 U3998 C/F Link Mount Options; Fr + Rr - Cougar SV2 Set 6  
 U4029 Front Lipo Stop - Cougar SV2  
 U4030 Lower Trans (High) - LH - Cougar SV2  
 U4034 Lower Trans (High) - RH - Cougar SV2  
 U4035 CF Top Deck Cells Rearward - Cougar SV2  
 U4042 Roll Bar Set - Cougar SV2  
 U4047 Stick Pack Conversion Set - Cougar SV2  
 U4053 Wishbones Front Medium - Cougar SV2  
 U4054 Wishbones Rear Medium - Cougar SV2

### TEAM CLOTHING

- G331L T Blue - Large
- G331M T Blue - Medium
- G331S T Blue - Small Man
- G331XL T Blue - X-Large
- G331XXL T Blue - XX-Large
- G331XXXL T Blue - XXX-Large
- G331XXXXL T Blue - XXXX-Large
- G334 Cap - Black; Medium 58cm
- G335 Cap - Black; Large 62cm
- G336L Sweat - Large
- G336M Sweat - Medium
- G336S Sweat - Small
- G336XL Sweat - X-Large
- G336XXL Sweat - XX-Large
- G337 Coffee Mug - Schumacher Logo
- G338 2 Tone Beanie Knitted Hat
- G339L Jacket - 3 Layer Softshell; Black - L 44inch
- G339M Jacket - 3 Layer Softshell; Black - M 41inch
- G339S Jacket - 3 Layer Softshell; Black - S - 38inch
- G339XL Jacket - 3 Layer Softshell; Black - XL 46inch
- G339XS Jacket - 3 Layer Softshell; Black - XS - 34inch
- G339XXL Jacket - 3 Layer Softshell; Black - XXL 48inch
- G339XXXL Jacket - 3 Layer Softshell; Black - XXXL 50inch



- Schumacher 3 Layer Soft Shell Team Jacket - Black
- G339XS - Extra Small - 34" Chest
- G339S - Small - 38" Chest
- G339M - Medium - 41" Chest
- G339L - Large - 44" Chest
- G339XL - Extra Large - 46" Chest
- G339XXL - Double Extra Large - 48" Chest
- G339XXXL - Triple Extra Large - 50" Chest

### ELECTRICAL ACCESSORIES

- AN530400HV Digital BL Servo 10.7Kg for 1/10th Steering
- AN530410HV Digital BL Servo 22Kg for 1/8 & 1/10 Buggy/Truggy
- CR007 CORE RC Silicone Wire 12g - Red/Black 2x50cm
- CR008 CORE RC RED Connector with 2x4mm Tubes
- CR009 CORE RC RED Connector with 2x4mm Males
- CR050 CORE RC Silicone Wire 12g - Red 1 Metre
- CR051 CORE RC Silicone Wire 12g - Black 1 Metre
- CR052 CORE RC Silicone Wire 12g - Blue 1 Metre
- CR053 CORE RC Silicone Wire 12g - Red 50 Metre Reel
- CR054 CORE RC Silicone Wire 12g - Black 50 Metre Reel
- CR055 CORE RC Silicone Wire 12g - Blue 50 Metre Reel
- CR115 CORE RC Silicone Wire 12g - Red/Black/Blue 3x50cm
- CR119 Heatshrink 1.5mm dia Black - 20pcs
- CR120 Heatshrink 2.0mm dia Black - 20pcs
- CR124 Heatshrink 6.0mm dia Black - 20pcs
- CR125 Heatshrink 6.0mm dia Red - 20pcs
- CR126 Heatshrink 6.0mm dia Blue - 20pcs
- CR151 CODE 2.4G FHSS LCD 2 Stick TxRx
- CR152 CODE 2.4G FHSS LCD - Rx Only
- CR153 CODE 2.4G FHSS Sport 2 Stick TxRx
- CR154 CODE 2.4G FHSS Sport - Rx Only
- CR155 Antenna 2.4G
- CR162 CORE RC Sensor Checking Widget
- ED199502 EDS Ultra Bright L.E.D. Light Stand
- G837 Mini Temp Gun - 420F 230C
- GM7987 Servo HBS 790 BB, MG
- GM7990 Servo HBS 860 BB, MG
- GM7991 Servo HBS 870 BB, MG
- GM94411 GM Soldering Station 90W ESD



- Team "T" Shirt Blue
- G331S - Blue Small Man
- G331M - Blue Medium
- G331L - Blue Large
- G331XL - Blue Extra Large
- G331XXL - Blue XX Large
- G331XXXL - Blue XXX Large
- G331XXXXL - Blue XXXX Large



G338 Team 2 Tone Beanie Knitted Hat

### CHARGERS

- CR161 UAC50 Charger 12v/110-240v 6A
- G834 Charger 240v UK; 7.2/Tx/Croc 1.2-12v
- NR91400 Sigma Power Charger
- NR91555 Stealth Touch Evolution Charger
- GM6468.GB Ultramat 16S + 3076

### BRUSHLESS MOTORS

- GM97296 GM Pro 6.5T - Star Wind
- NR90550 Cobra Brushless Motor - 6.5T
- NR90652 PURE Evolution BL - 8.5t
- NR90662 PURE Evolution BL - 7.5t
- NR90672 PURE Evolution BL - 6.5t
- NR90673 PURE Evolution BL - 6.5t OCTA WIND



- Team Cap "Flexi-Fit"
- G334 - Medium - 58cm
- G335 - Large - 62cm



- Team Hooded Sweat Shirt
- G336S - Small
- G336M - Medium
- G336L - Large
- G336XL - Extra Large
- G336XXL - Double Extra Large

**BRUSHLESS MOTORS Cont...**

NR90683 PURE Evolution BL - 5.5t OCTA WIND  
 NR90693 PURE Evolution BL - 4.5t OCTA WIND  
 SP000015 Ultra Sportsman Version 3.0 Sensor Motor 10.5R  
 SP000016 Ultra Sportsman Version 3.0 Sensor Motor 13.5R  
 SP000017 Ultra Sportsman Version 3.0 Sensor Motor 17.5R  
 SP000025 Ultra Sportman Version 3.0 Sensor Motor 5.5R  
 SP000027 Ultra Sportsman Version 3.0 Sensor Motor 7.5R  
 SP000028 Ultra Sportsman Version 3.0 Sensor Motor 8.5R  
 SP13865V3 Speed Passion V3.0 Comp BL Motor; 6.5T  
 SP13875V3 Speed Passion V3.0 Comp BL Motor; 7.5T  
 SP13885V3 Speed Passion V3.0 Comp BL Motor; 8.5T

**BRUSHLESS ACCESSORIES**

GM2894.9 Sensor Adaptor Cable - Gm-Evo2/Novak-M  
 NR90639 Pure Evo Spec Racing 1S Lipo Tuning Rotor  
 NR92500 USB Bridge - Speedo Firmware Update Device  
 NR92512 Cooling Fan; Low Profile - Include Mounting Screws  
 SP000029 Sensor Unit +20 Timing"for V3.0 Motor-Green Color"  
 SP000034 Sensor Unit +10 Timing" for V3.0 Motor-Red Color"  
 SP000041 Sensor Unit for V3.0 - 4.0T/5.0T Motor  
 SP138MS105 10.5R Stator for Competition Version 3.0 Motor  
 SP138MS135 13.5R Stator for Competition Version 3.0 Motor  
 SP138MS175 7.5R Stator for Competition Version 3.0 Motor  
 SP138MS215 21.5R Stator for Competition Version 3.0 Motor  
 SP162803 SP - Sensor Cable 250mm  
 SPSB428 Sensor unit with Team protect for V3.0 motor

**BRUSHLESS SPEED CONTROLLERS**

GM97163 GM Genius 75 BL-ESC  
 GM97164 GM Genius 90 BL ESC 90 Amp V2010  
 GM97168 GM Genius 120 BL-ESC 120 Amp V2010  
 NR90905 Pearl Evolution V2 Brushless ESC  
 NR90915 Pearl Evolution Racing Spec V2 - B/less Speed Cont  
 NR90955 Pearl Evolution ISTC V2 Brushless ESC  
 SPEXT98802B Speed Passion GT V2.0 ESC - Blue  
 SPEXT98802LPB Speed Passion LPF V2.0 ESC - Blue  
 SPEXT98802LPF Speed Passion LPF V2.0 ESC - Carbon Look  
 SPEXT98802LPSS Speed Passion LPF V2.0 ESC - Silver  
 SPEXT98802PRO Speed Passion GT V2.0 ESC - Carbon Look  
 SPEXT98802S Speed Passion GT V2.0 ESC - Silver

**BATTERIES AND ACCESSORIES**

CR033 CORE RC - Safe Charge Pouch 18x22cm  
 CR059 CORE RC - Safe Charge Pouch 23x30cm  
 CR147 CORE RC T-Trx Battery Adaptor  
 G718 GP Alkaline AA Pencil; Card 4  
 G721 AA Pencil 2500NiMH - Card 4  
 GM99009 Lipo-saddle V-Maxx 60C 2x1S3P/5600 3, 7V G4  
 GM99010 Lipo-Akku V-Maxx 60C 2S2P/6200 G3,5/G4  
 GM99011 Lipo-Akku V-Maxx 60C 2S2P/6200 G4  
 H1046 T Connector; Red 2 Way - Male and Female  
 H1047 T Connector; Black 2 Way - Male and Female  
 H1048 T Connector; Red Sockets - pk4  
 H1049 T Connector; Black Sockets - pk4  
 MR-SB MR33 Lipo Bag  
 NR99948 NOSRAM LiPo 5000 Saddle - 7.4V 50C  
 NR99951 Lipo 6200 Big Mama X-treme Race H/case 65C-7.4V  
 NR99983 VTEC Lipo TX-Pk Sanwa M11-X/MX-3X-7.4V  
 SLR5545H SP 5300mah 45C Racing Lipo Hardcase

**TOOLS**

HW010 Circlip Pliers; Internal - Wiha  
 CR100 Shock Shaft Pliers - Purple  
 CR101 Shock Shaft Pliers - Black  
 CR102 Magnetic Parts Tray - Purple  
 CR103 Magnetic Parts Tray - Black  
 CR148 CORE RC - Polybutler Pit Box; Black  
 ED181002 Chassis Droop Gauge Blocks 20mm for 1/8,1/10 (2)

**TOOLS Cont...**

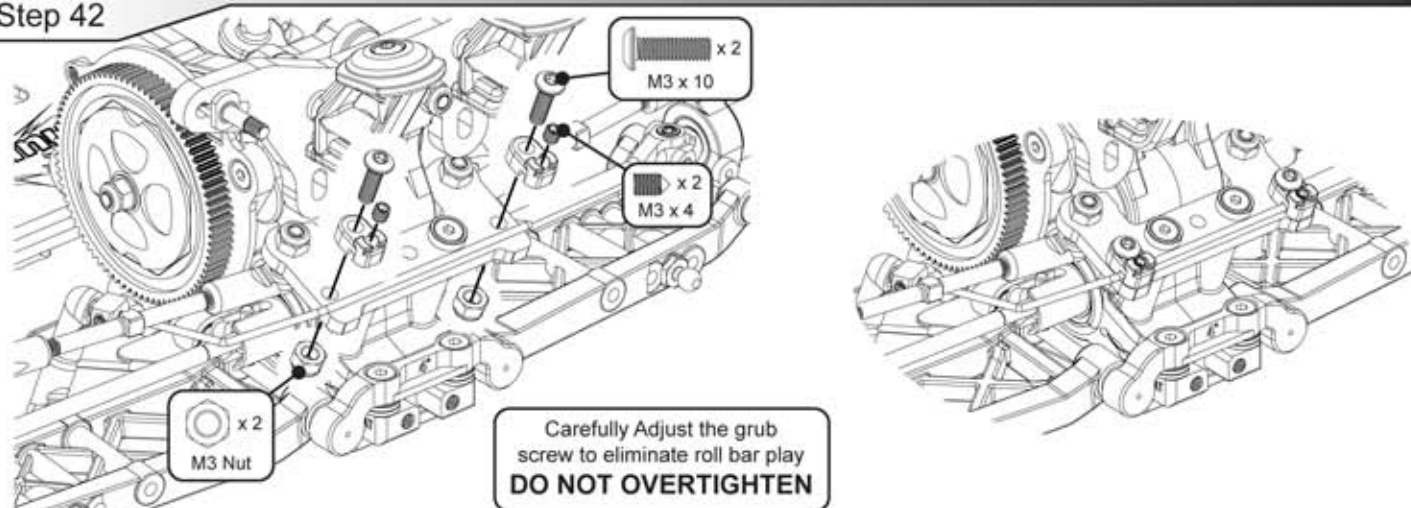
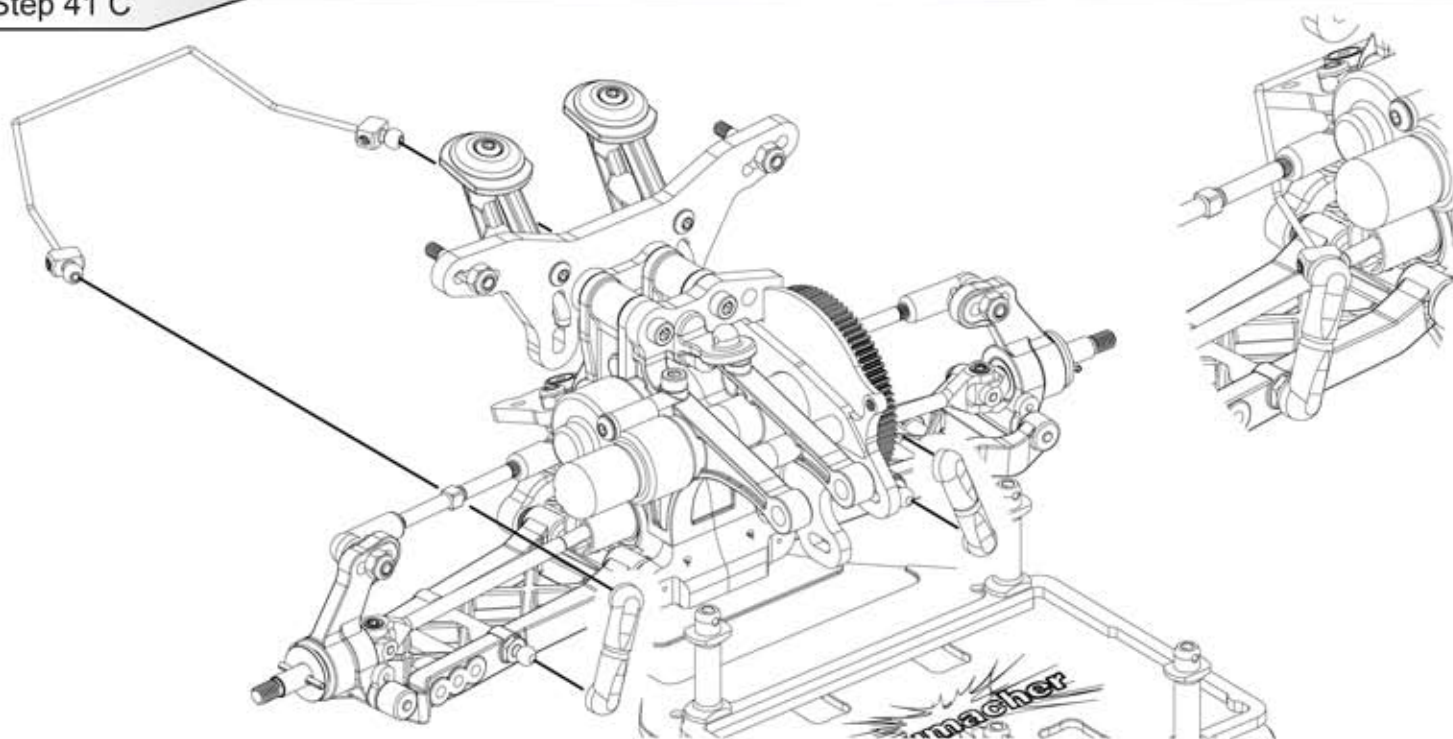
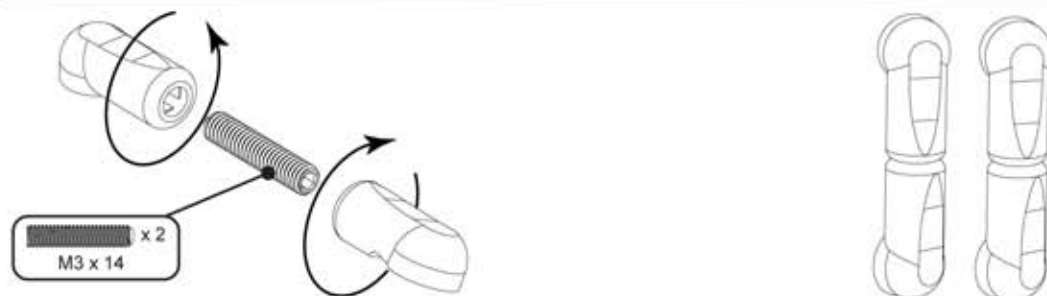
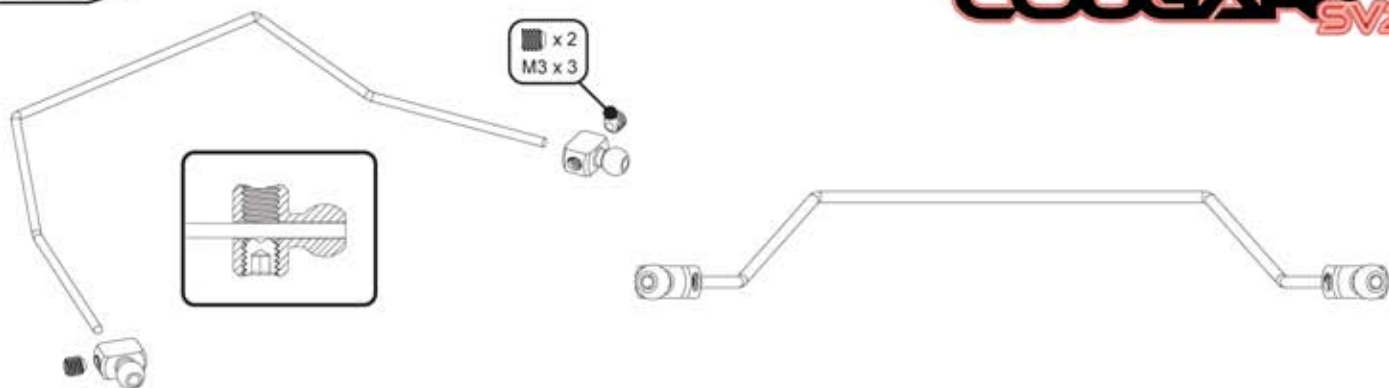
ED181002 Chassis Droop Gauge Blocks 20mm for 1/8,1/10 (2)  
 H1032 Alloy Camber Gauge - 1/10th  
 H1055 GT85 Lube and Clean Aerosol 400ml  
 U2789 Schumacher Hex Driver - 1.5mm  
 U2790 Schumacher Hex Driver - 2.0mm  
 U2791 Schumacher Hex Driver - 2.5mm  
 U2792 Schumacher Hex Driver - 3.0mm  
 U2795 Schumacher M3 Nut Driver  
 U2796 Schumacher M4 Nut Driver  
 U2818 Schumacher Body Reamer

**OFF ROAD TYRES**

CR143 Multi Bow; 1/10 Off Rd Rear  
 CR144 Multi Bow; 1/10 Off Rd 4WD Front  
 CR145 Multi Block; 1/10 Off Rd Rear  
 CR146 Multi Block; 1/10 Off Rd 4WD Front  
 T650 Full Spike - Rear Tyres - Soft CAT (pr)  
 T652 Full Spike - Front Tyres - Soft CAT (pr)  
 T692 Block - Rear Tyres - Blue - CAT (pr)  
 T693 Block - Front Tyres - Blue - CAT (pr)  
 U6515 Mini Spike 2; Front Tyres - Green - 2.2 (pr)  
 U6516 Mini Spike 2; Rear Tyres - Green - 2.2 (pr)  
 U6517 Mini Spike 2; Front Tyres - Blue - 2.2 (pr)  
 U6518 Mini Spike 2; Rear Tyres - Blue - 2.2 (pr)  
 U6549 Mini Spike 2; Blue - Slim (pr)  
 U6550 Mini Spike 2; Green - Slim (pr)  
 U6557 Mini Spike 2; Front Tyres - Yellow (pr)  
 U6558 Mini Spike 2; Rear Tyres - Yellow (pr)  
 U6581 Mini Spike 2; standard -Yellow - Slim (pr)  
 U6592 Stagger Rib - Yellow - Slim (pr)  
 U6595 Full Spike - Front Tyres- Yellow - 2.2 (pr)  
 U6596 Full Spike - Rear Tyres- Yellow - 2.2 (pr)  
 U6601 Mini Pin - Blue - Front - 2.2 (pr)  
 U6602 Mini Pin - Blue - Rear - 2.2 (pr)  
 U6607 Mini Pin - Yellow - Front - 2.2 (pr)  
 U6608 Mini Pin - Yellow - Rear - 2.2 (pr)  
 U6609 Mini Pin - Yellow - Slim (pr)  
 U6740 Mini Spike2 Pre-Glue; Yellow - Cat Rear (pr)  
 U6742 Mini Pin Pre-Glue; Yellow - Cat Rear (pr)  
 U6753 Mini Spike; Slim Yellow - Pre-Glued pr  
 U6755 Mini Pin; Slim Yellow - Pre-Glued pr  
 U6759 Cut Stagger - Yellow - Slim (pr)  
 U6760 Cut Stagger; Slim Yellow - Pre-Glued pr  
 U6761 Mini Spike 2; Silver - Slim (pr)  
 U6762 Mini Spike 2; Front Tyres - Silver (pr)  
 U6763 Mini Spike 2; Rear Tyres - Silver (pr)  
 U6765 Cut Stagger Green - Slim pr  
 U6770 Cut Stagger - Low Profile - Yellow (pr)  
 U6771 Cut Stagger - Low Profile - green (pr)

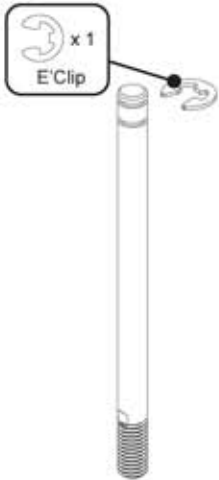
**OFF ROAD WHEELS**

CR141 Red Moulded Insert; 1/10 Off Rd Rear  
 CR142 Red Moulded Insert; 1/10 Off Rd 4WD Front  
 U3383 Wheel; Rear - Cat pr  
 U3406 Wheel; Rear Fluro Yellow - Cat pr  
 U3756 Med Front Wheels; White - Cougar SV  
 U3765 Med Front Wheels; Yellow - Cougar SV  
 U3766 Slim Front Wheels; White - Cougar SV  
 U6652 Foam Tyre Insert; Hard - Front - CAT (pr)  
 U6653 Foam Tyre Insert; Hard - Rear - CAT (pr)  
 U6667 Foam Tyre Insert; Hard - Slim 2WD (pr)  
 U6668 Foam Tyre Inserts; Soft - Ultra Wide (pr)  
 U6669 Foam Tyre Inserts; Hard - Ultra Wide (pr)  
 U6733 Foam Tyre Insert; Med - Front - CAT (pr)  
 U6734 Foam Tyre Insert; Med - Rear - CAT (pr)  
 U6738 Foam Tyre Insert; Med - Slim 2WD (pr)  
 U6746 Tubby Insert; Med Front - CAT (pr)  
 U6747 Tubby Insert; Med Rear - CAT (pr)

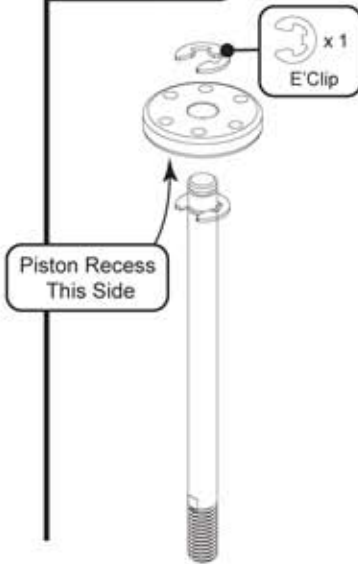




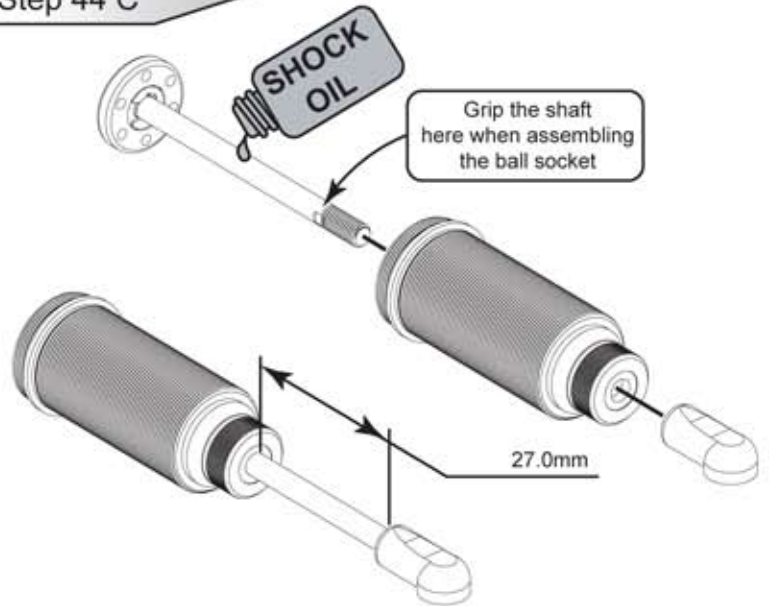
Step 44 A



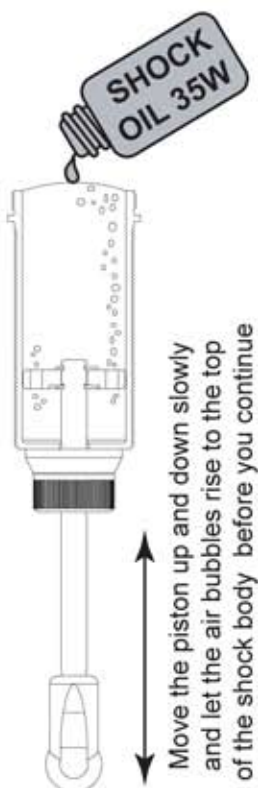
Step 44 B



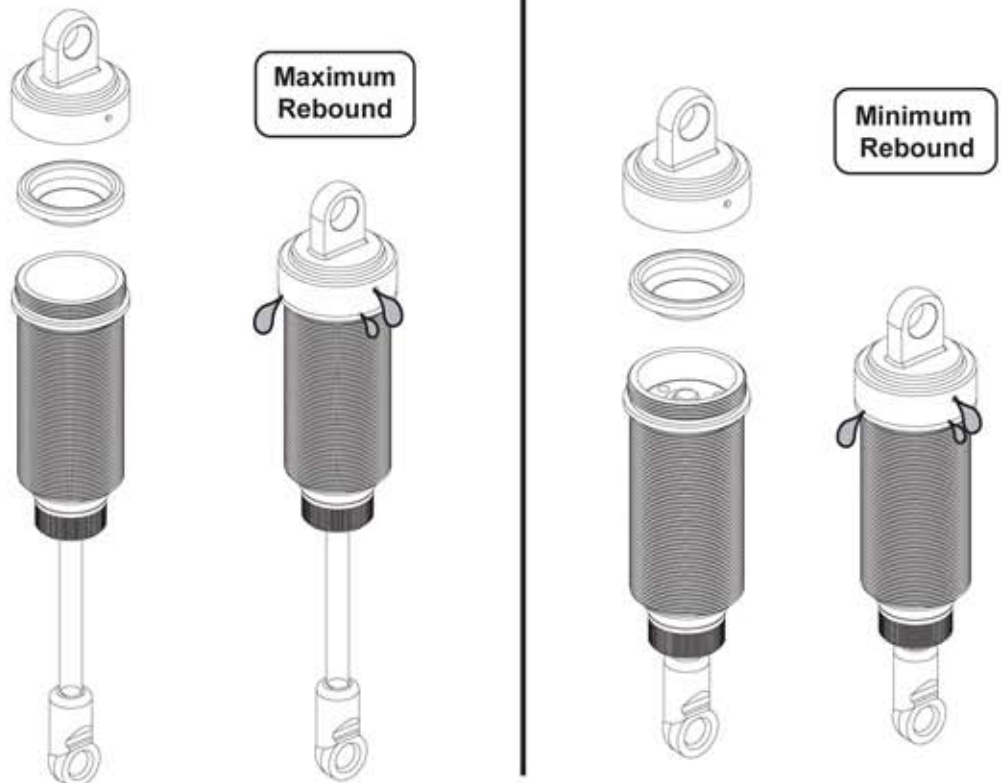
Step 44 C



Step 45 A



Step 45 B

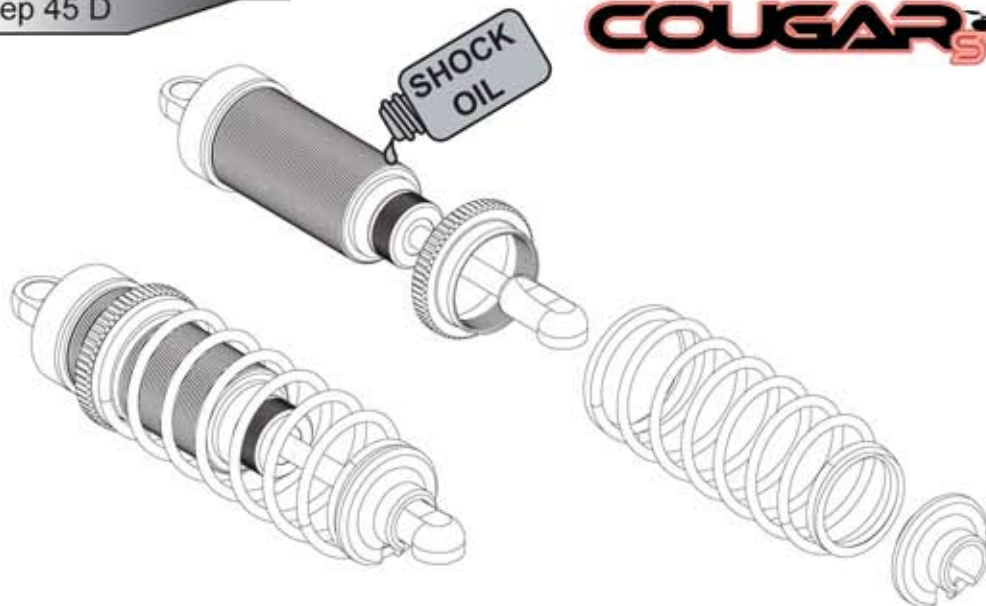


Step 45 C

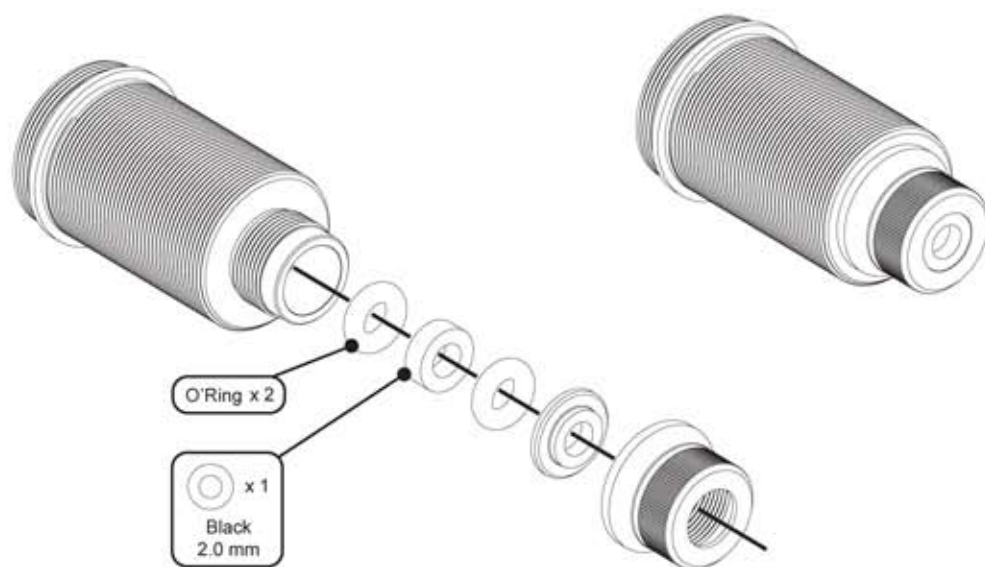


Step 45 D

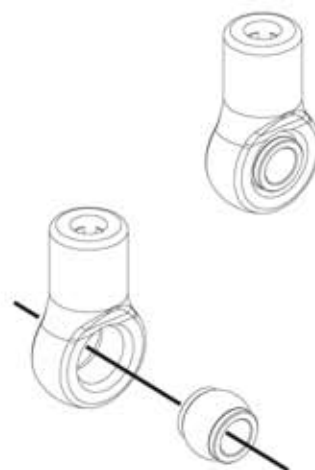
**COUGAR** SV2



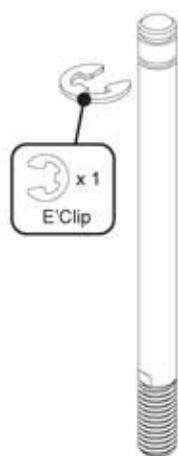
Step 46



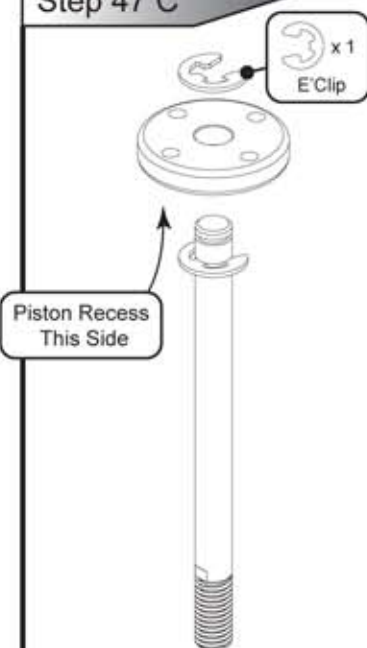
Step 47 A



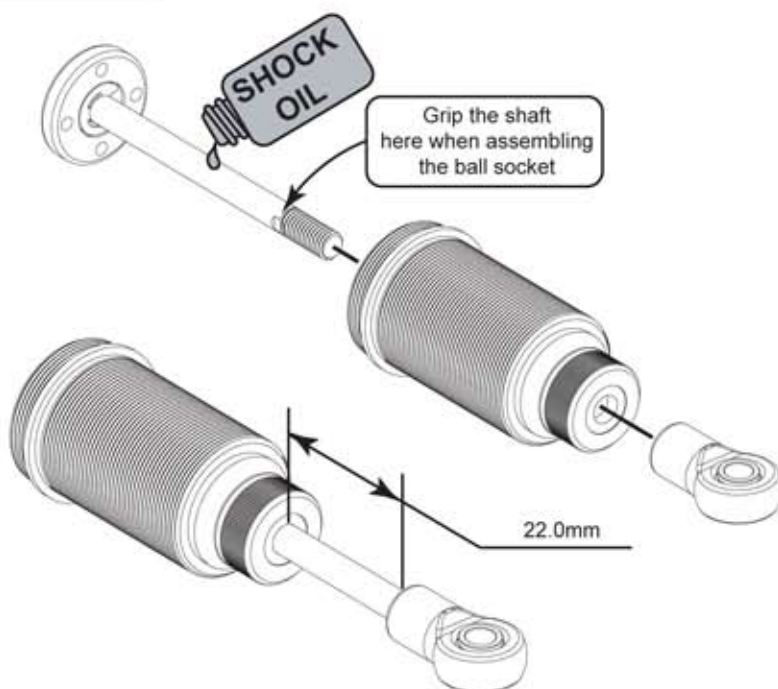
Step 47 B



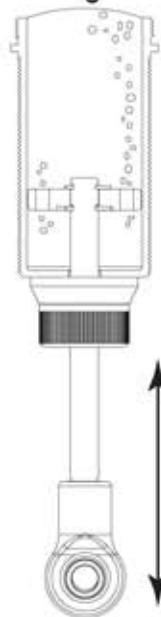
Step 47 C



Step 47 D



Step 48 A



Move the piston up and down slowly and let the air bubbles rise to the top of the shock body before you continue

Step 48 B



Maximum Rebound



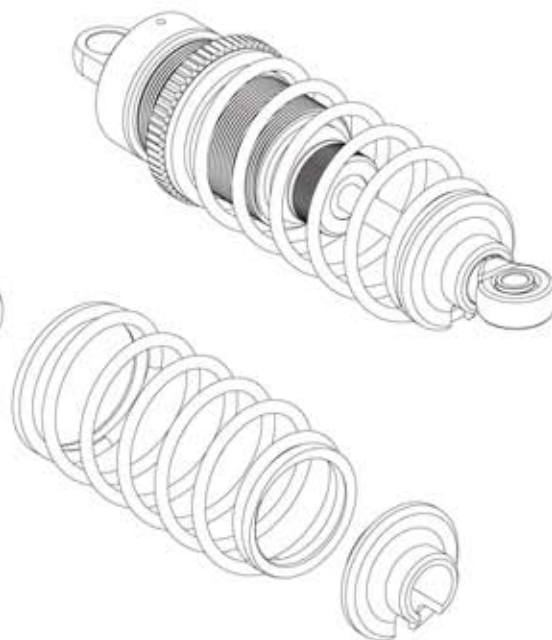
Minimum Rebound



Step 48 C



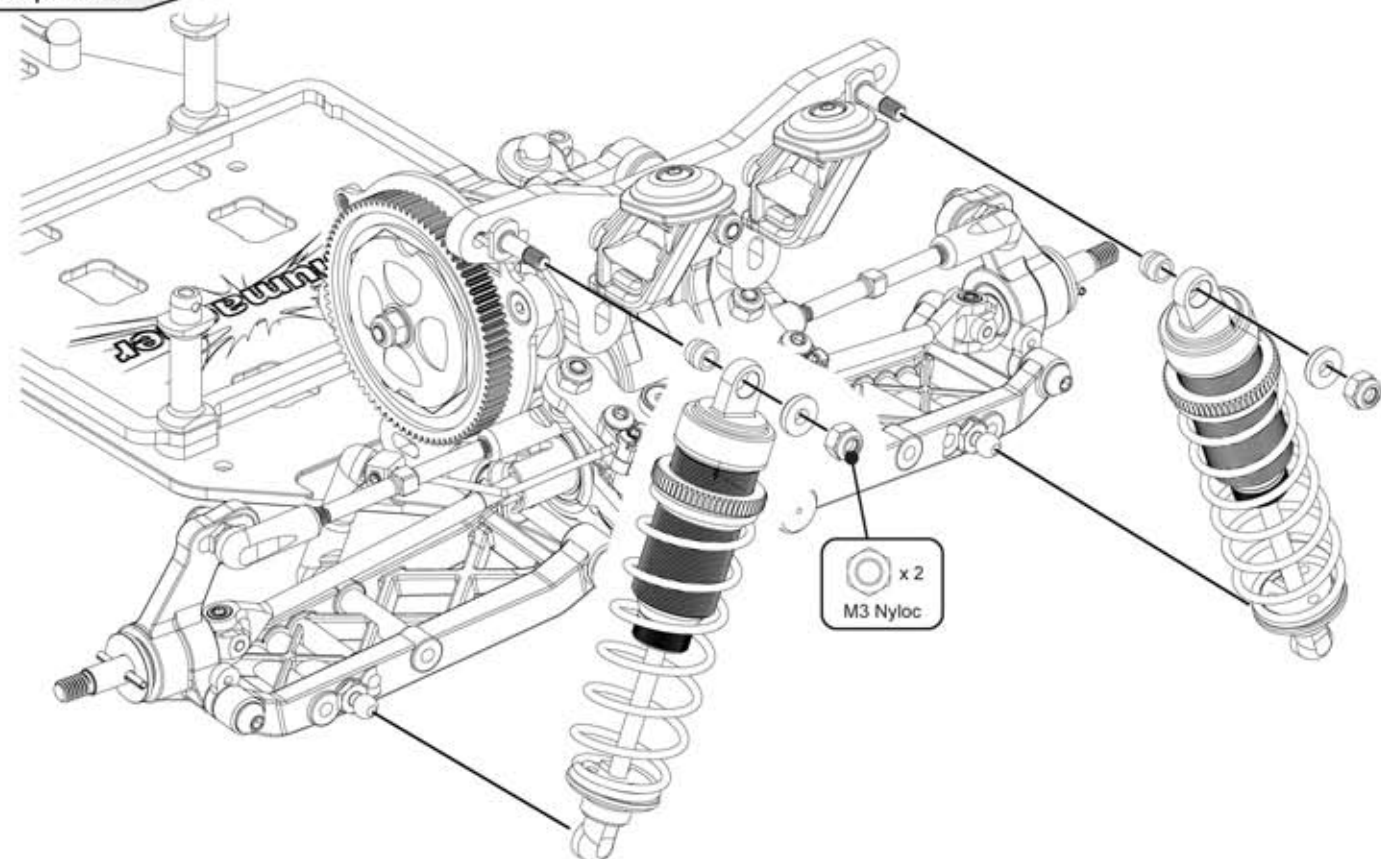
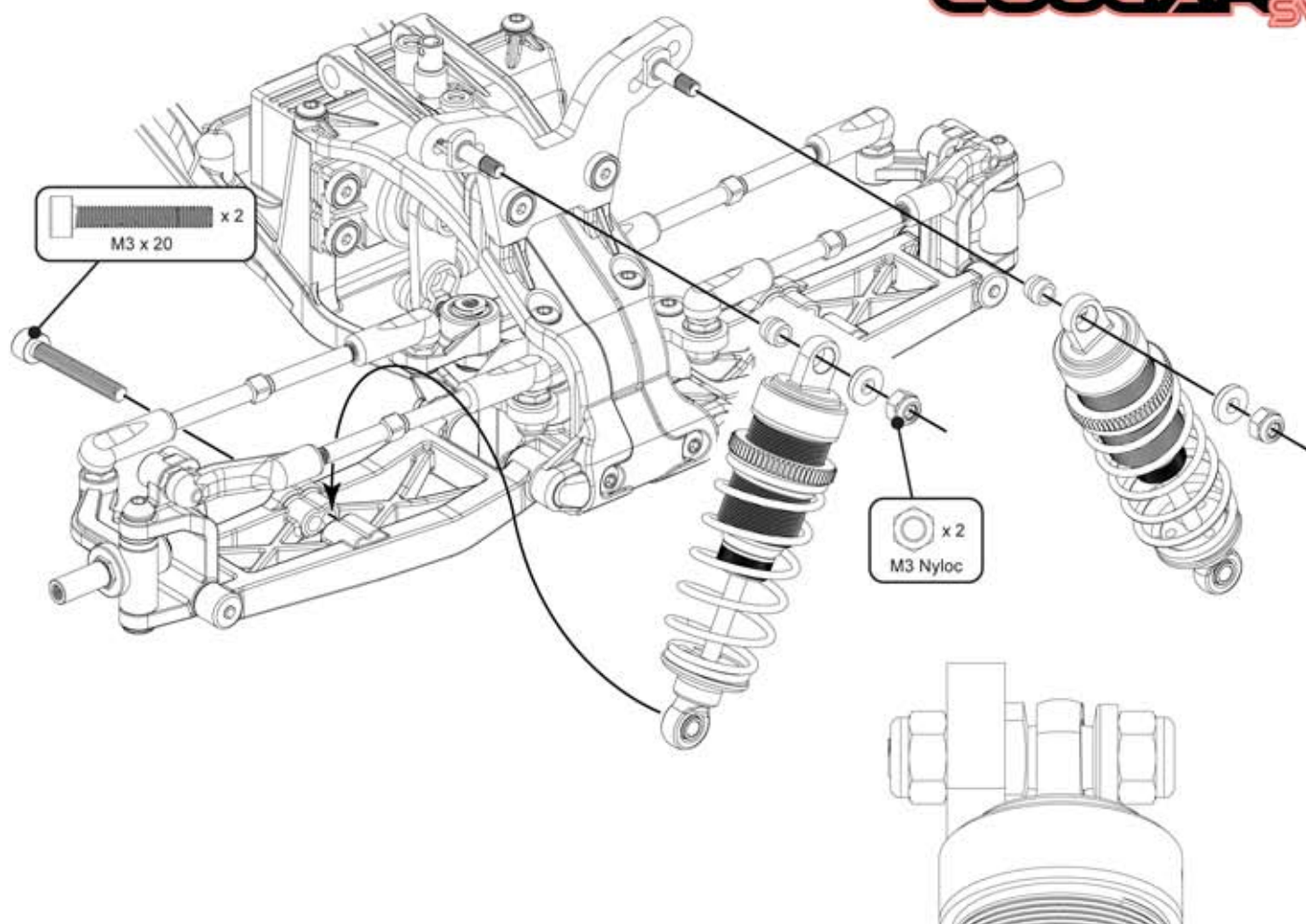
Step 48 D



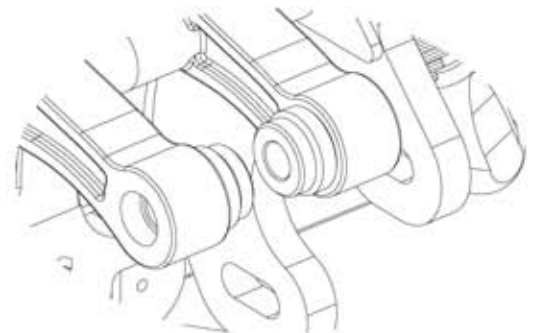
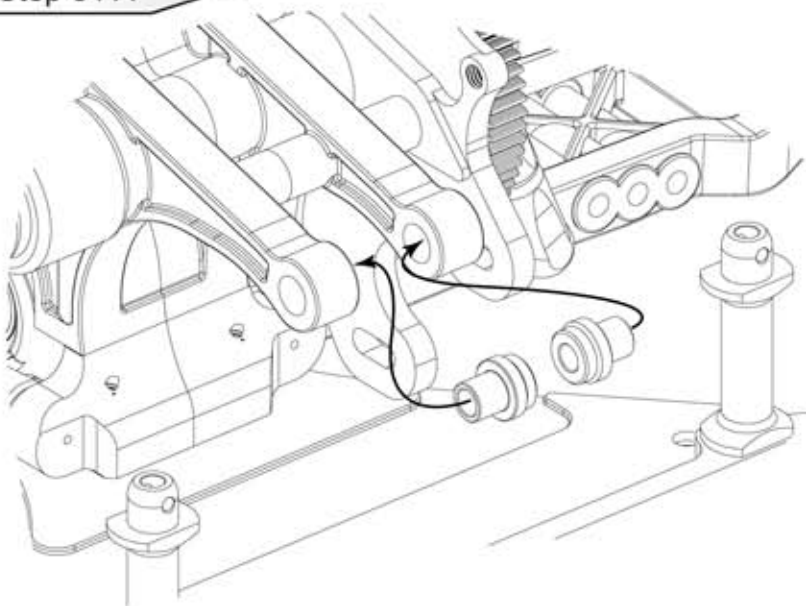
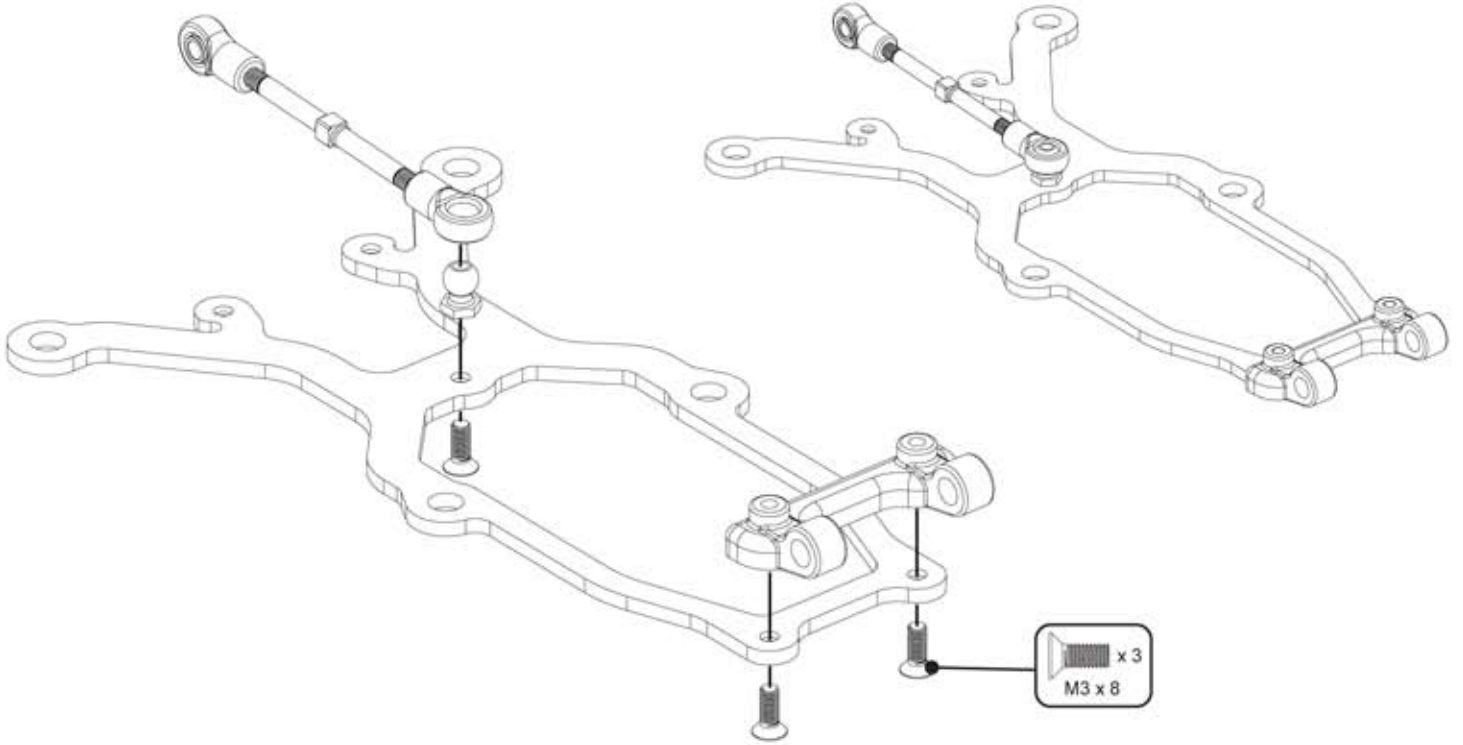
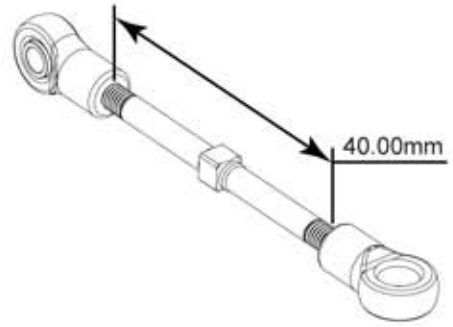
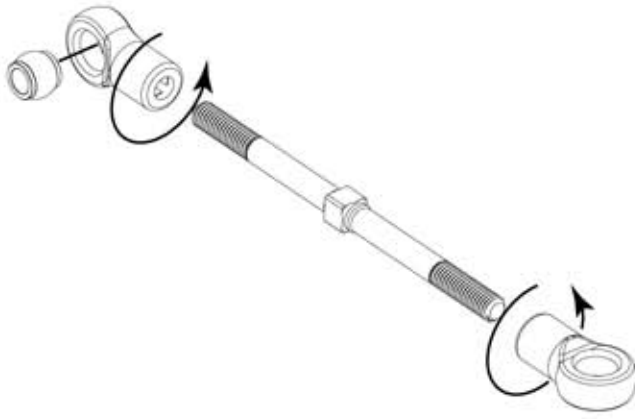
Silicone Oils

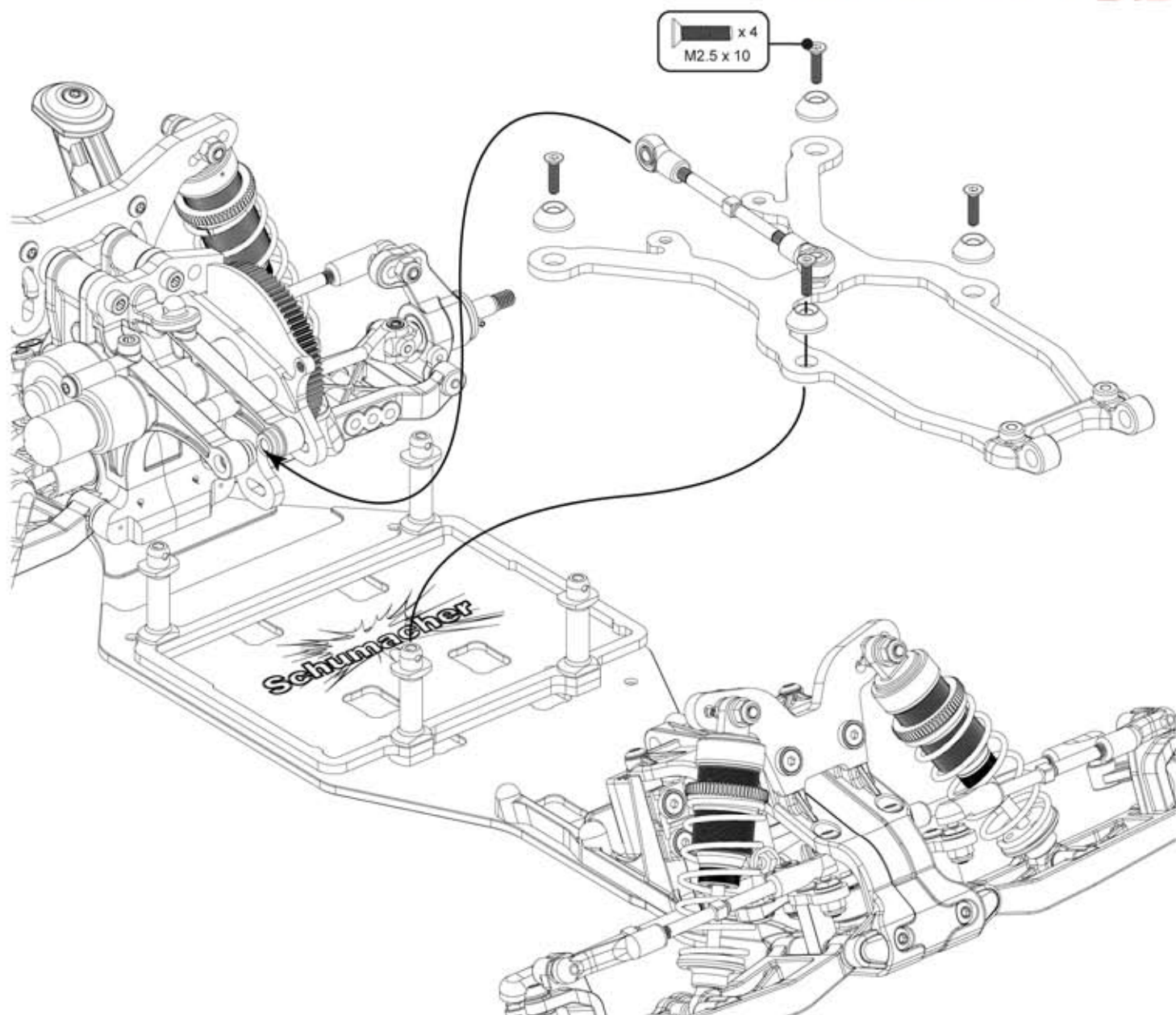


- CR200 CORE R/C Silicone Oil - 100 cSt - 60ml
- CR201 CORE R/C Silicone Oil - 150 cSt - 60ml
- CR202 CORE R/C Silicone Oil - 200 cSt - 60ml
- CR203 CORE R/C Silicone Oil - 250 cSt - 60ml
- CR204 CORE R/C Silicone Oil - 300 cSt - 60ml
- CR205 CORE R/C Silicone Oil - 350 cSt - 60ml
- CR206 CORE R/C Silicone Oil - 400 cSt - 60ml
- CR207 CORE R/C Silicone Oil - 450 cSt - 60ml
- CR208 CORE R/C Silicone Oil - 500 cSt - 60ml
- CR209 CORE R/C Silicone Oil - 550 cSt - 60ml
- CR210 CORE R/C Silicone Oil - 600 cSt - 60ml

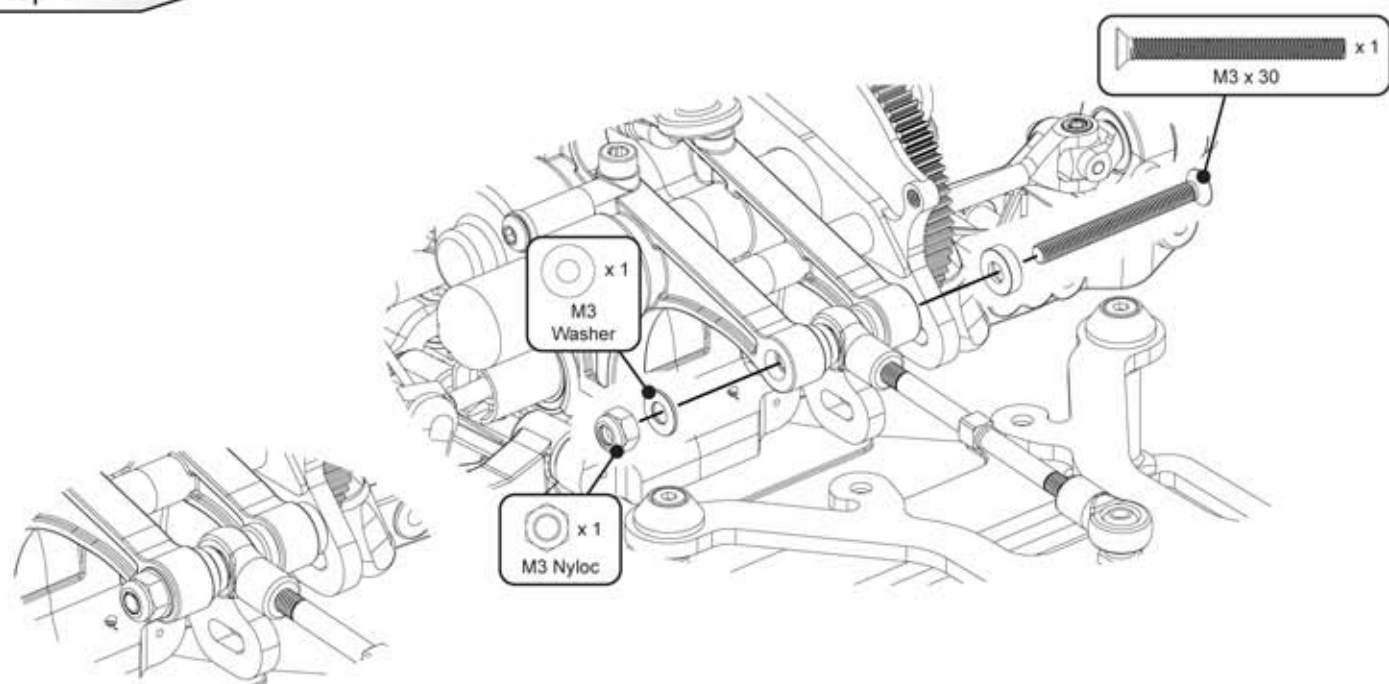


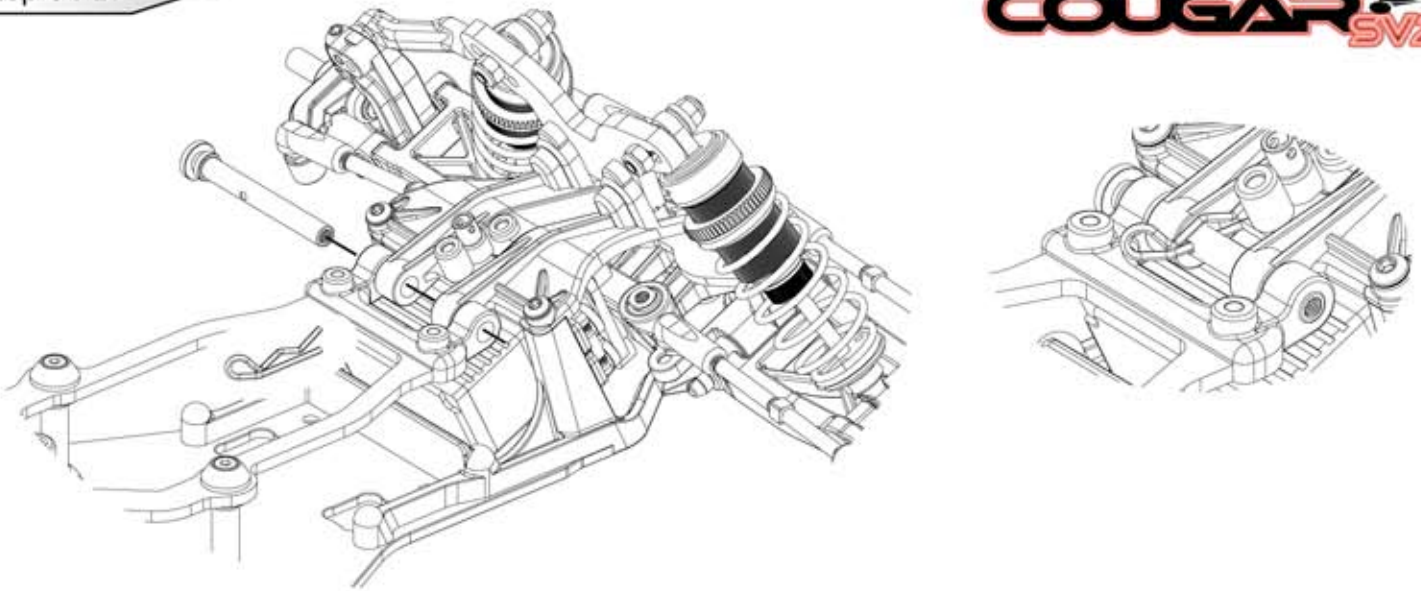




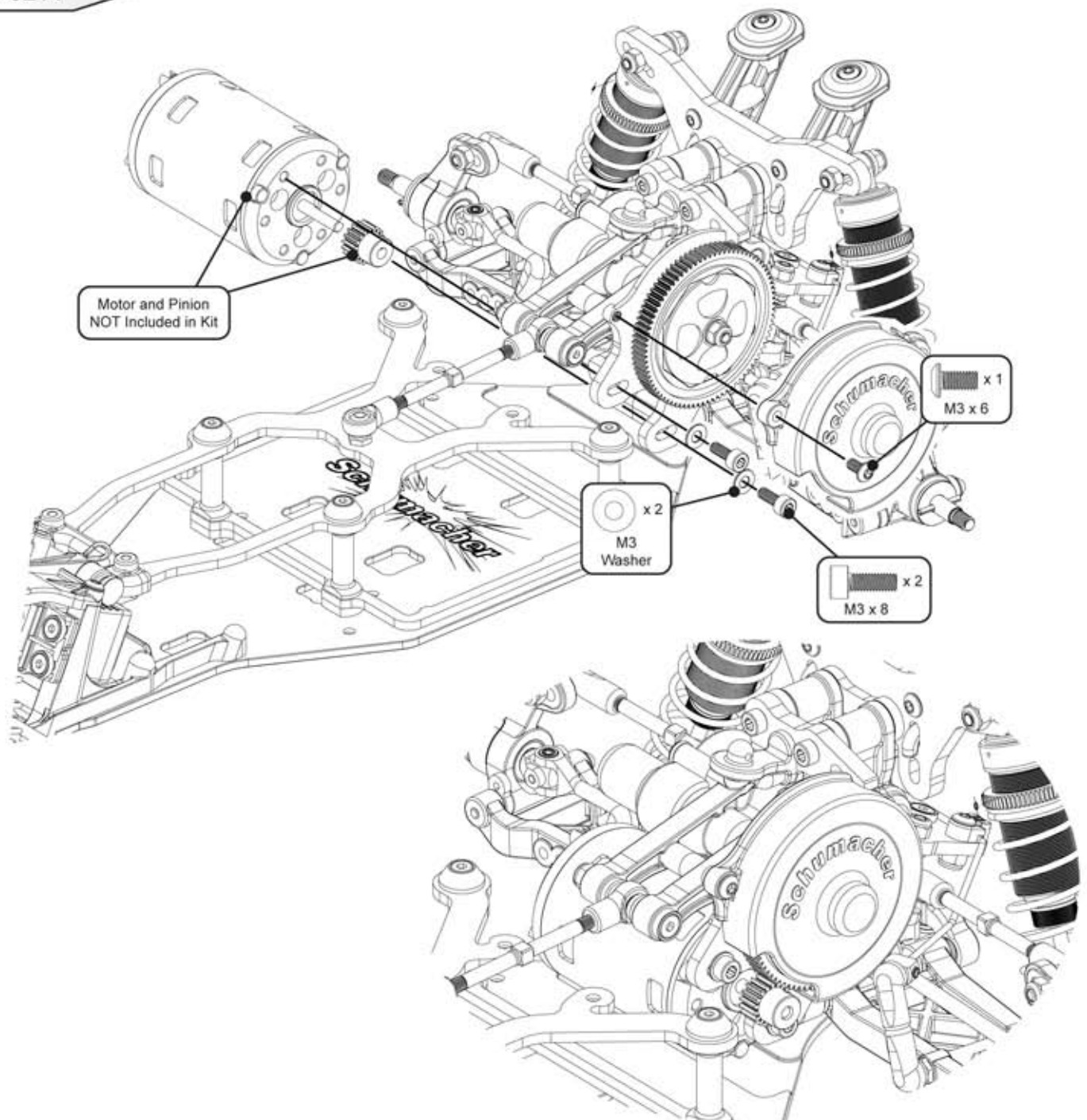


## Step 51 C

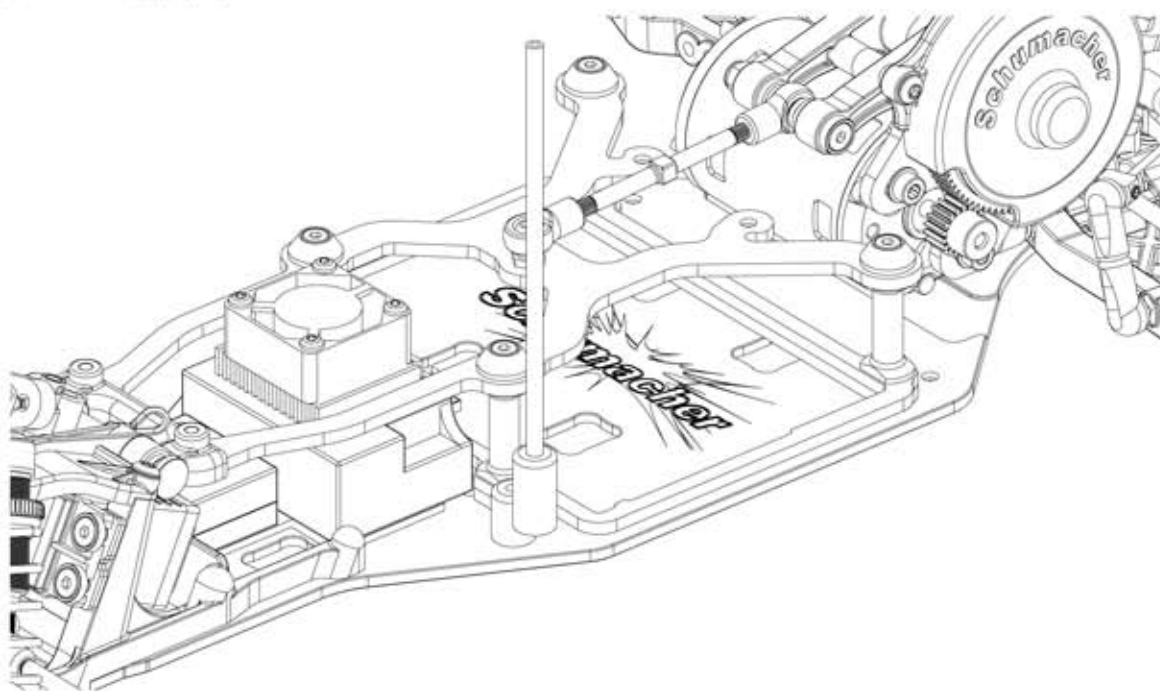
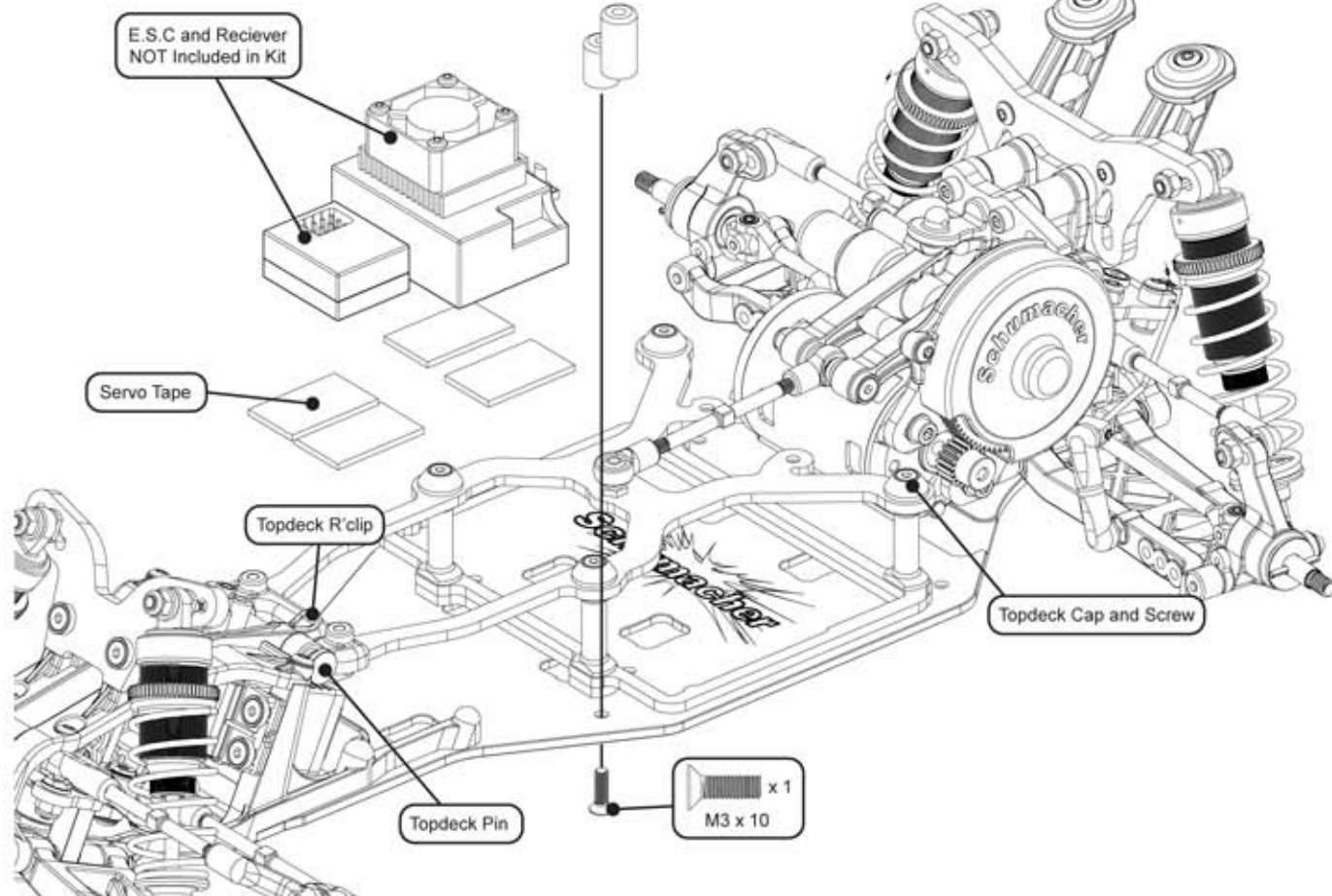




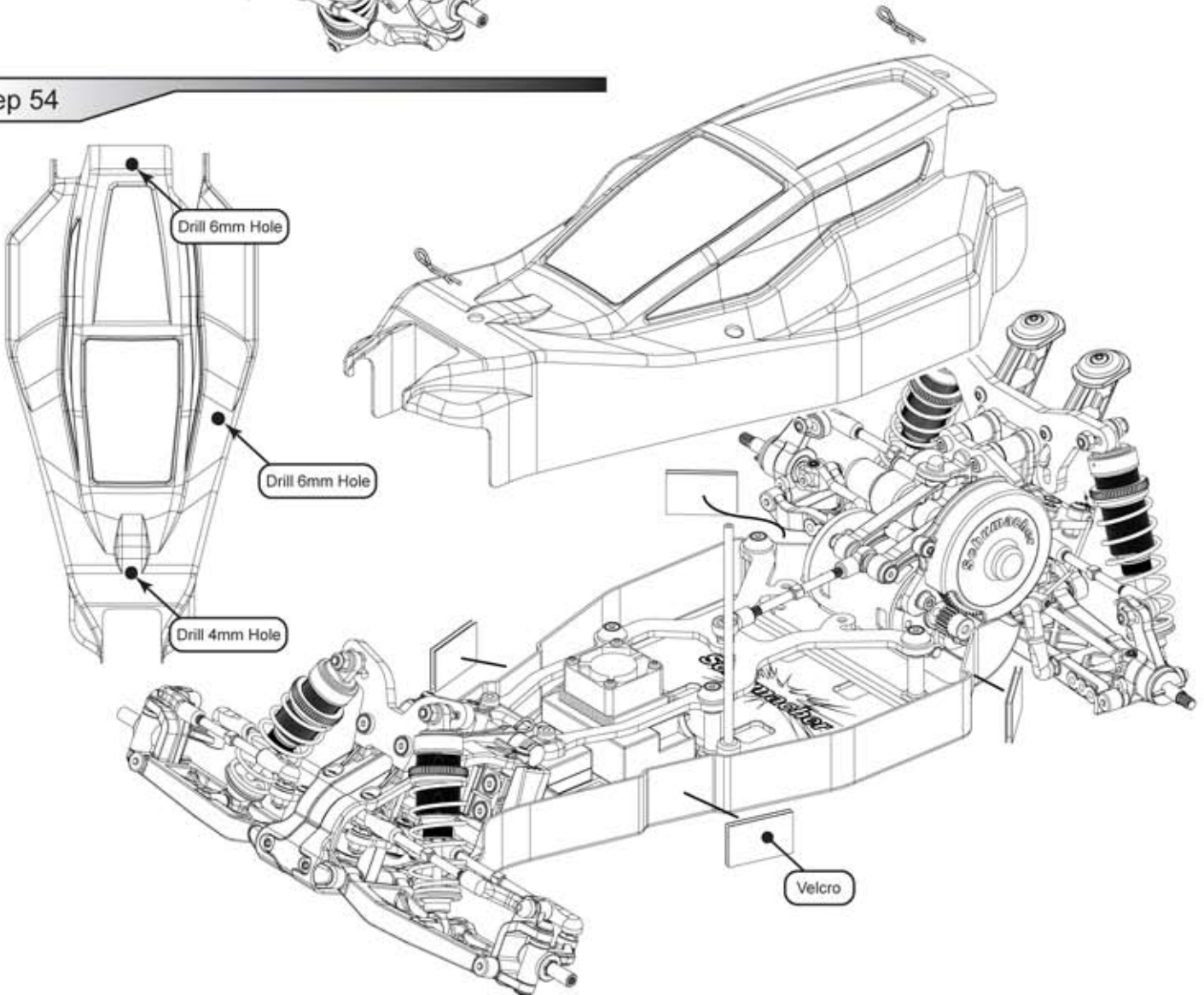
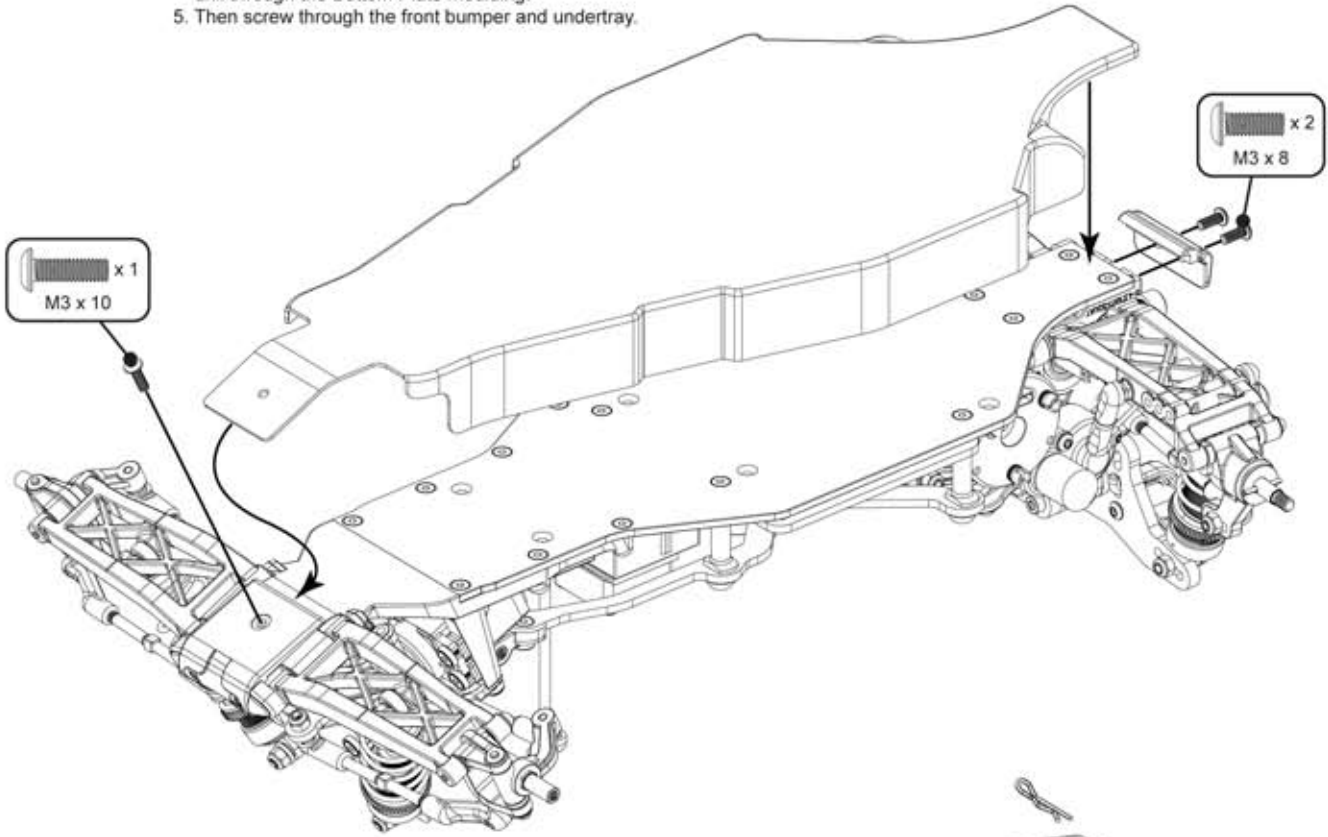
## Step 52 A

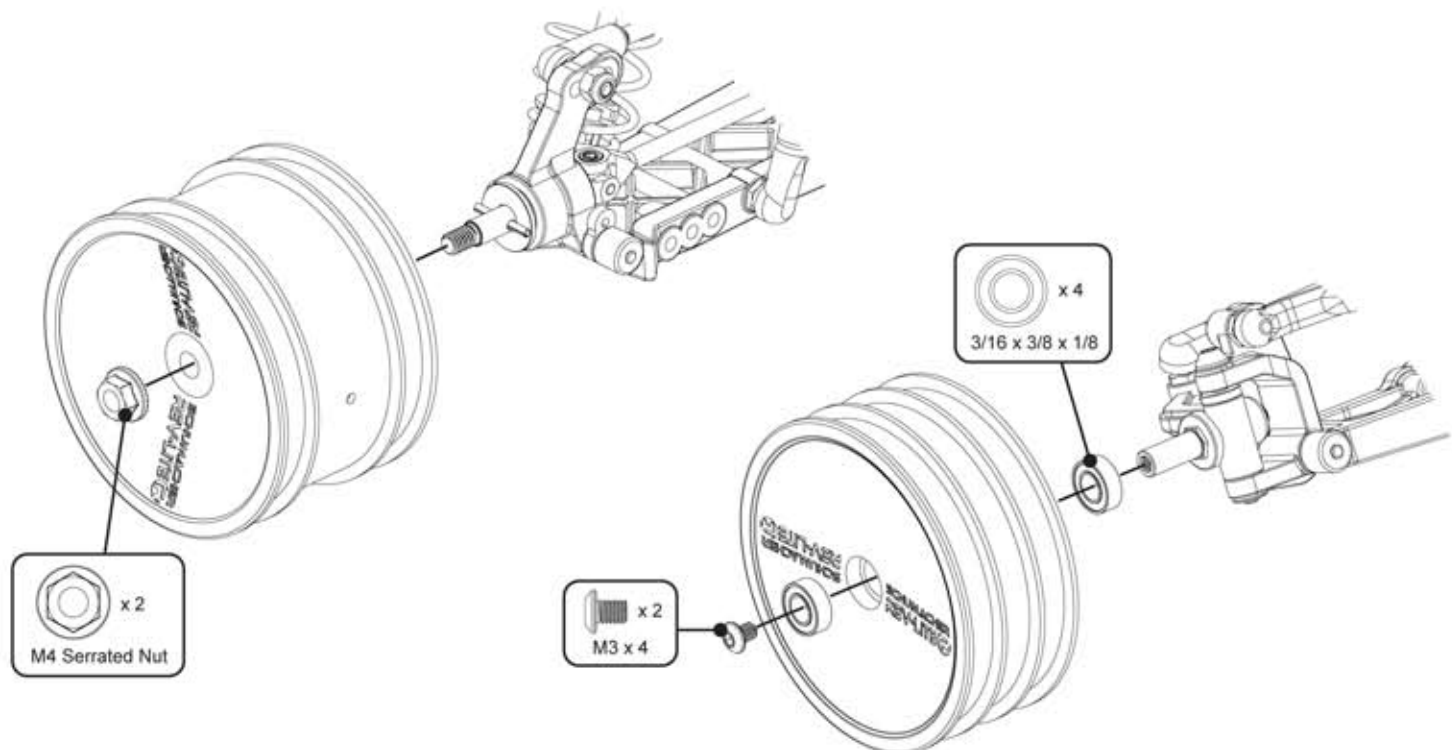
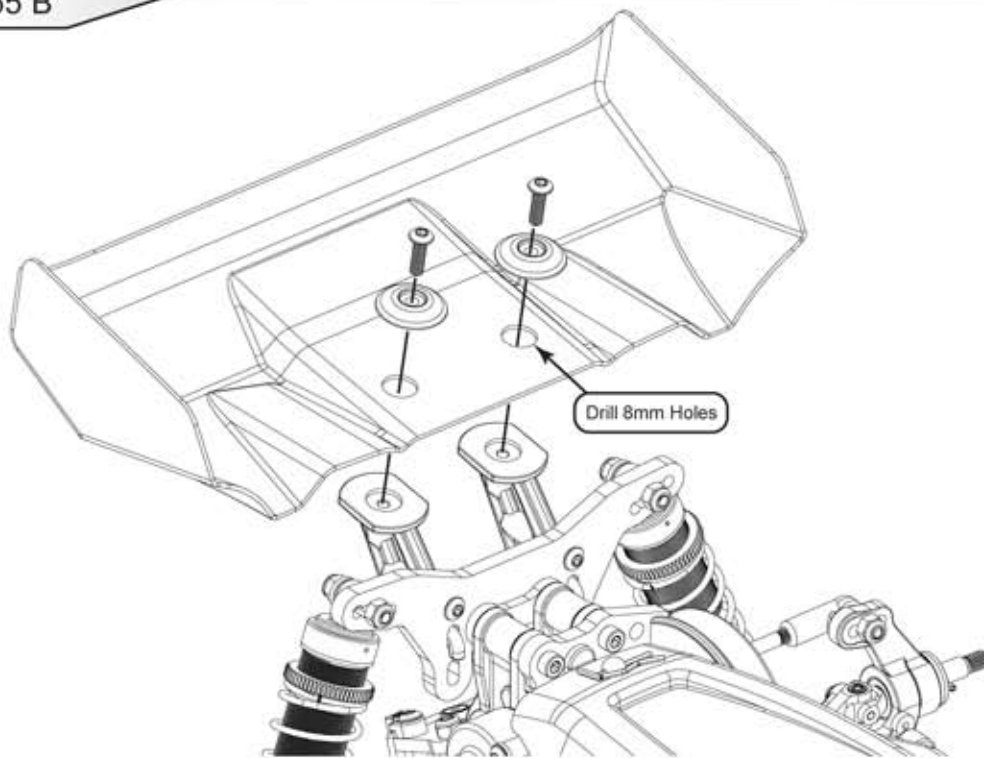
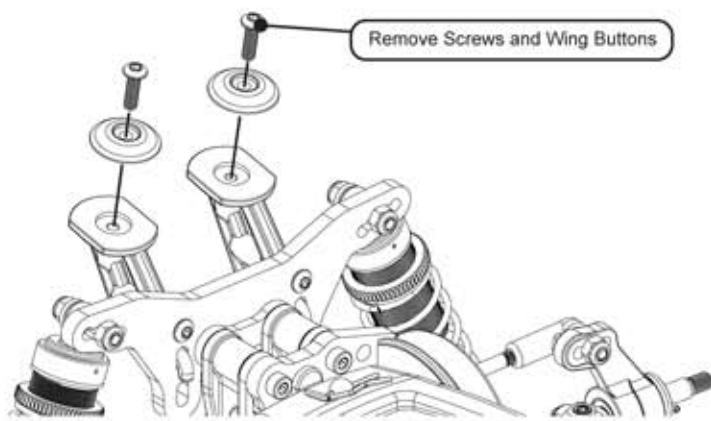


You will need to Pivot the topdeck out of the way to install your E.S.C and Receiver, to do this remove the Four Topdeck Caps and Screws, remove the R'clip at the front of the Topdeck and pull the Topdeck Pin. The Topdeck is now free to Rotate up and back so that the electrics may be fitted. The LiPo's are also installed this way.



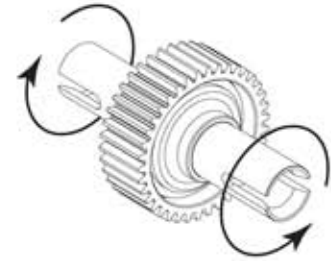
1. Slide the front of the Undertray under the front Bumper,
2. Fix the rear of the Undertray to the car using the Rear Bumber
3. Ensure that the Undertray is correctly positioned and is pressed tight towards the front of the car.
4. Using a 3mm drill, carefully make the hole in the undertray for the front screw by drilling through the hole in the front bumper, or You may want to mark the centre for the hole and remove the undertray to drill it so that you do not accidentally drill through the Bottom Plate moulding.
5. Then screw through the front bumper and undertray.





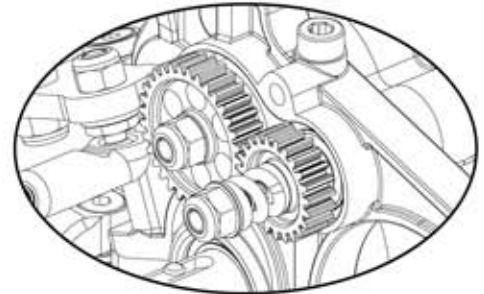
## Differential

For consistent performance it is vital that the differential action should be smooth and free. The diff should be adjusted using the recommended settings in the manual. Diff adjustment is not a tuning aid and the diff should never be allowed to slip. A loose diff can usually be recognised by a "chirping" sound when powering away from turns or landing under power from large jumps. When re building your diff we recommend using a U1954 thrust race and U3019 ceramic nitride balls for ultimate reliability and weight saving.



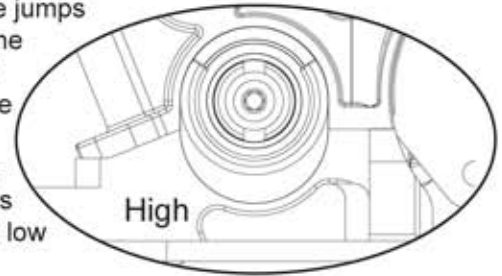
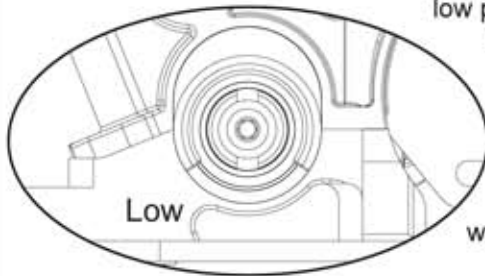
## Slipper Clutch

On most tracks it is best to start with the slipper on a tight setting, and gradually loosen the spring tension, until you achieve the most consistent drive away from turns without spinning the car or pulling wheelies. Make sure you still have enough drive when launching the car from the up ramps. **WARNING**, Do not run the slipper too loose as it could melt the plastic spur gear.



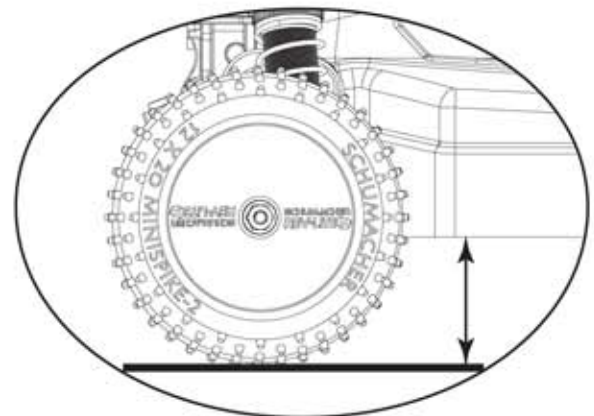
## Differential height

It is possible to run the Cougar with the diff in the high or low position, When running on tracks with large jumps using the diff in the high position causes the driveshaft's to plunge more, The added friction of this can help make the car more stable on landing when under power. This setting could also help with traction on loose surfaces. For most normal tracks we would recommend running the diff in the low position for reduced driveshaft friction.



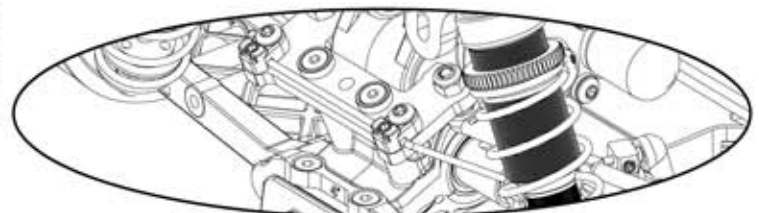
## Ride height

Use the spring adjusters on the shock absorbers to adjust the front and rear ride heights, We would recommend setting the ride height to around 20 mm with the car level. This is measured between the bottom of the chassis and the ground with the car in running trim. First press the car down on to the ground and release it once or twice to settle the suspension before adjusting the ride height. The chassis should be level when viewed from the side. Adjusting the spring collars does not increase or decrease the spring stiffness only the preload. So if the suspension needs to be softer or harder change the spring.



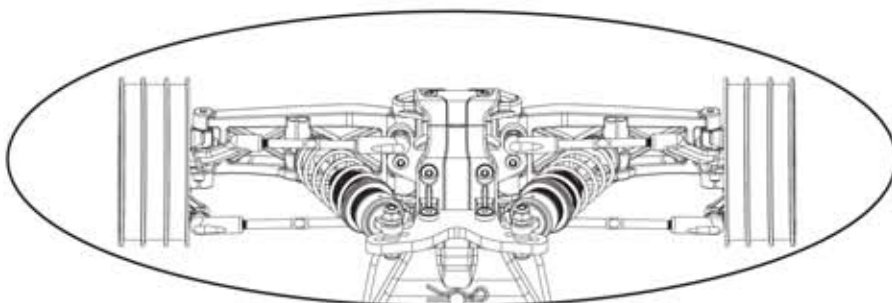
## Anti Roll Bar

Anti roll bars are an often overlooked set up aid that allows fine tuning of the suspension without major changes to the shock and spring settings. They are mainly used to add roll stiffness to the car without affecting the handling on bumps and jumps. Running roll bars allows you to run softer suspension on bumpy tracks while reducing the roll in corners thus maintaining stability through the turns.



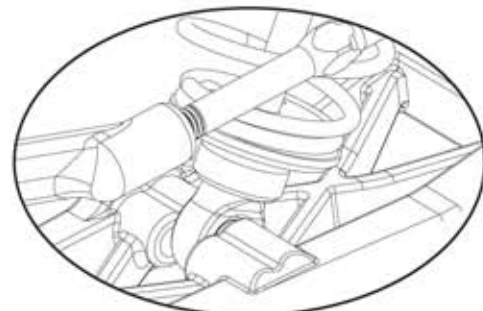
## Front Toe In

Front toe in should be set to  $0^\circ$  (both front wheels pointing straight ahead) this will be the best setting for most track conditions. Adding slight toe out will increase initial turn in. Whereas slight toe in will make this initial turn in a little softer.



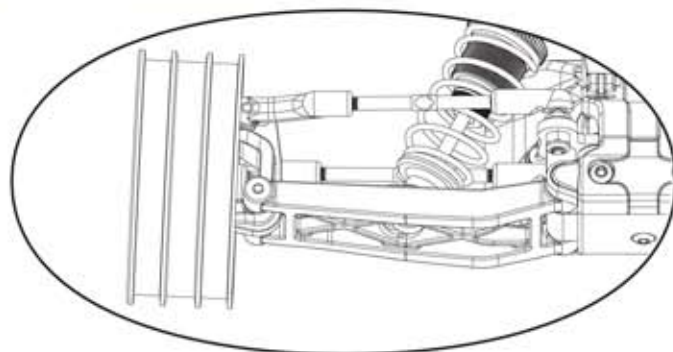
## Front Wishbone Shock Mounting Hole

The inboard hole on the wishbone is the standard setting for most tracks. Moving the shock out to the outer hole makes the car less reactive. It decreases the initial turn in and keeps the front of the car flatter through the turns. This setting also makes the front end stiffer and reduces the front suspension travel.



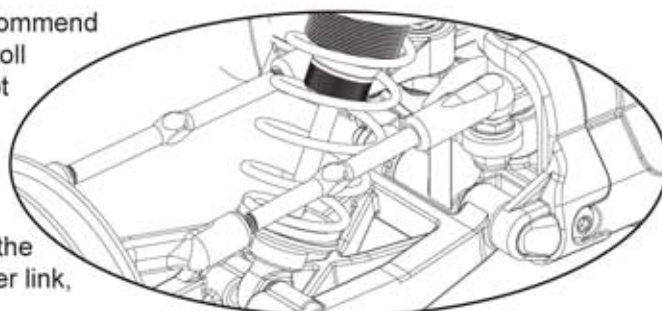
## Front Camber

The usual team setting for static front camber is  $1^\circ$  negative at ride height (the top of the wheel is leaning inwards towards the car). Increasing the static camber will generally increase the mid corner steering, whereas decreasing the static camber usually makes the car smoother to drive by reducing the steering response.



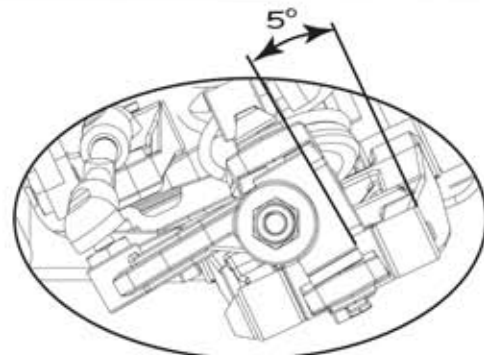
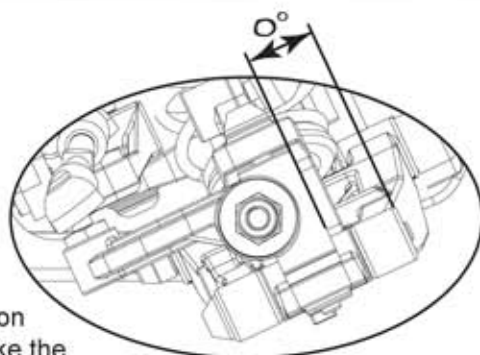
## Front Camber Links

The kit front camber link position and length are what the Team recommend for most tracks. Using a long front link makes the front of the car roll more and will give less steering reaction at high speed. It is also not quite as good on very bumpy tracks. We would probably recommend this on fairly smooth high grip tracks. A shorter front link will make the car roll less and quicken the initial steering response. This is a better choice for bumpy low grip tracks. Lowering the inside ball stud will give a similar result to shortening the link, and raising it will give a similar result to lengthening the camber link, but with less total effect.



## Front Yoke

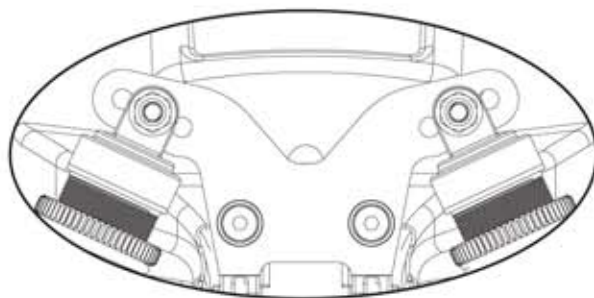
The rake angle (kick up) is  $25^\circ$  on the cougar and needs adding to the castor block angle to get the total castor angle. The standard car uses a  $0^\circ$  castor block making the standard car  $25^\circ$  in total; this can be increased to  $30^\circ$  by using the optional  $5^\circ$  castor block. Using more castor gives better corner entry steering but less power on steering at corner exit, and will make the steering feel a little softer than when using the standard  $25^\circ$  setup.





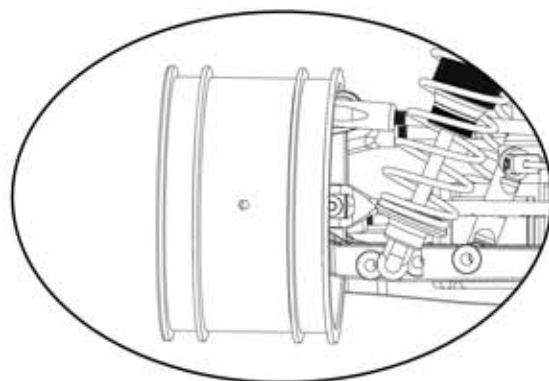
## Front Shock Mount

The middle hole on the front shock mount is the most widely used position. Moving the shock to the outer position will make the car react faster and increase the initial steering response, it may however stiffen the suspension which may require an oil and spring change so that the cars suspension feels the same. By moving the shock to the inner hole will soften the suspension and slow down the steering reaction and make the car smoother on bumpy tracks. Again you may need to alter the oil and spring combination to get the suspension correct again.



## Rear Camber

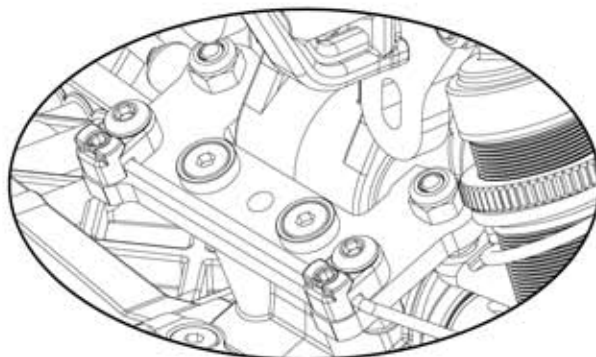
The usual team setting for static rear camber is  $1^\circ$  negative at ride height (the top of the tyre leaning inwards towards the car). Increasing the static rear camber will increase the traction when exiting the turns, but will be less stable at high speed. Decreasing the camber will reduce stability and traction in the turns but will be more stable at high speed. (Some drivers believe that adding slight positive camber where the tyre leans out at the top away from the car, will improve straight line traction on loose surfaces)



## Rear Camber Links

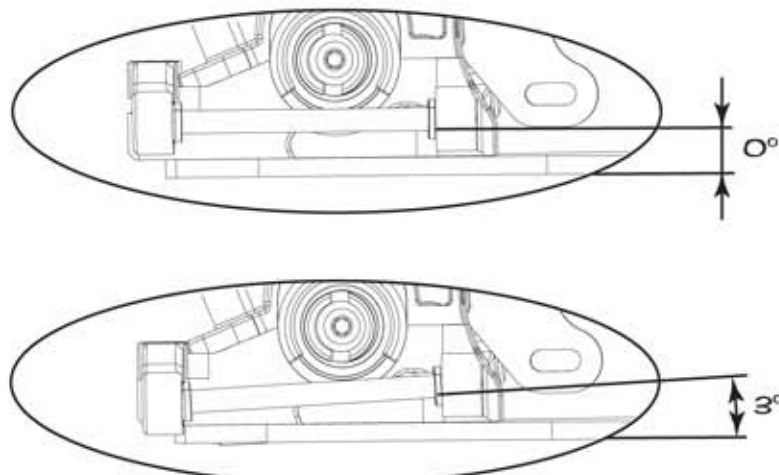
The kit build rear camber link setting is the best compromise for most tracks. This link option gives good stability and straight line traction while allowing the rear of the car to free up on high speed turns. This reduces power on under steer on high grip tracks.

Shortening the rear camber link will make the rear of the car roll less in the corners and square up faster when accelerating away from tight turns, longer links are generally used on high grip tracks and shorter links on low grip tracks. Lowering the inside ball stud will give a similar result to shortening the link, and raising it will give a similar result to lengthening the camber link, but with less total effect.



## Rear Anti Squat

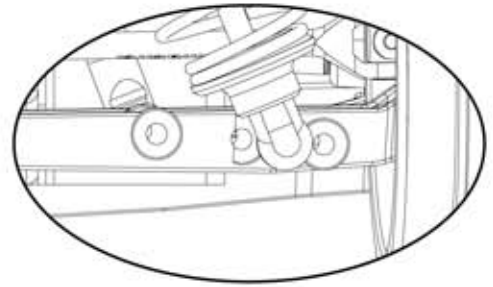
The standard anti squat is adjustable from  $0^\circ$  to  $3^\circ$ .  $0^\circ$  anti squat allows the suspension to work better over the large bumps but usually gives less power on traction. Adding more antisquat gives more forward traction up to the point where the car starts to pull wheelies. Backing off the slipper is not always an option to compensate for this as good initial bite is needed to clear big jumps. Adding antisquat seems to make the car handle better over small ripples but not so good on the tracks with large bumps. The Team have found that  $3^\circ$  works well on most tracks. And With optional parts this can be increased to  $4.5^\circ$ .



## Rear Wishbone Shock mounting Hole

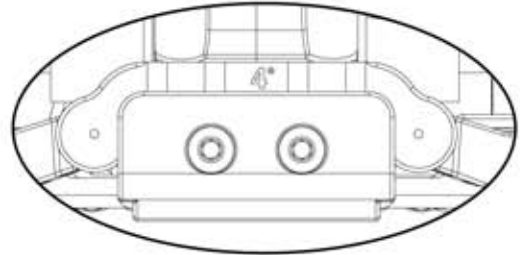
The Middle hole works best for most track conditions giving good traction and drive through the turns whilst maintaining good stability over the bumps. Moving to the outer hole on the wishbone will decrease traction but will allow the rear to free up more in the turns.

This setting would usually only get used on high grip tracks and when moving the shock out you may have to change the oil and spring settings to get the same suspension feel.

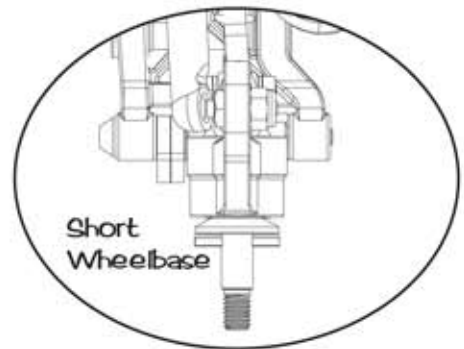
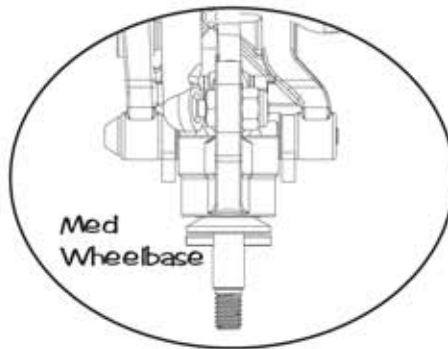
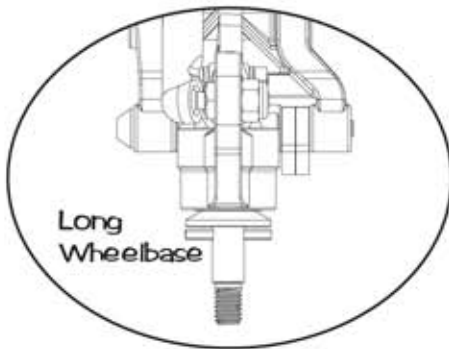


## Rear Toe In

The standard rear toe in is 4° this is a good compromise between forward traction and the car binding in the turns, this setting is fine for most tracks. If you are running too much toe in your car may suffer from instability at high speeds, decreasing the toe in will reduce forward traction but will free the car up in the turns. Usually the Team use less toe in on high grip tracks and more for low grip tracks.



## Wheelbase Options



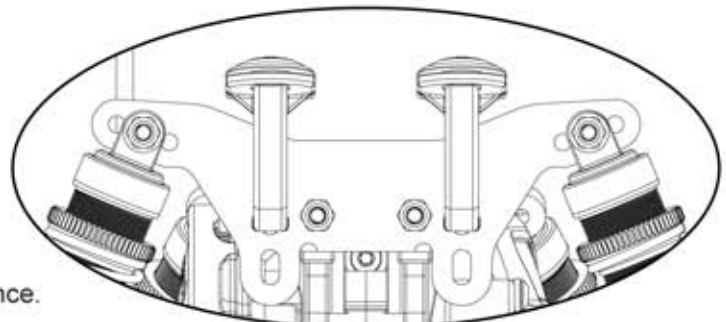
The cougar has 3 wheelbase options, short, med and long. This is adjusted by repositioning the quick clips at the rear hub carrier. Both clips at the rear move the hub forwards for short wheelbase. Both at the front for long wheelbase and one either side for med wheelbase. Running the car in short wheelbase will give more traction at the expense of stability over rough sections of the track. For better stability over the rough section run the car in long wheelbase form this will also free up the car on sweeping sections of the track.

## TEAM TIP

Swapping the front wishbones from left to right gives a wheelbase increase of 1.5mm, but this also changes the steering Ackerman slightly and reduces front end grab when turning in off power.

## Rear Shock Mount

The middle hole on the shock mount gives best all round results. Moving the shock to the outer hole will stiffen the suspension and increase the reaction of the steering. The downside is less compliance over bumpy sections of the track. Moving the shock to the inboard position softens the suspension and will slow the steering reaction making the car smoother over the bumps. Moving the shock to these holes may require an oil or spring change to maintain the suspension performance.



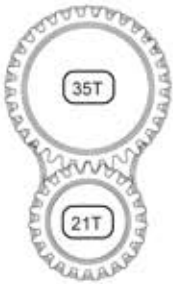
Traditionally 2WD cars from the USA have always used an internal ratio between 2.4:1 and 2.6:1

The Standard Cougar Ratio is 2.58:1 with the option to run either 2.23:1 or 3:1 with optional parts.

One advantage of these interchangeable ratio's is that it is possible to adjust the motor position whilst maintaining the same overall gearing.

### 3 : 1

We Class this as a High inertia ratio, as the layshaft for the same overall gearing will be rotating faster than the other available ratios. This will give you a smooth driving transmission, spooling up and down without major reactions from throttle input, Good for loose surfaces.



	16	17	18	19	20	21	22	23	24	25	26	27	28
83	15.56	14.65	13.83	13.11	12.45	11.86	11.32	10.83	10.38	9.96			
82	15.37	14.47	13.67	12.95	12.30	11.71	11.18	10.70	10.25	9.84	9.46		
81		14.29	13.50	12.79	12.15	11.57	11.05	10.57	10.13	9.72	9.35	9.00	
80			13.33	12.63	12.00	11.43	10.91	10.43	10.00	9.60	9.23	8.89	8.57

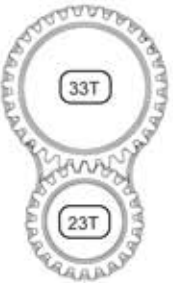
	22	23	24	25	26	27	28	29	30	31	32
76	10.36	9.91	9.50	9.12	8.77	8.44	8.14	7.86	7.60	7.35	7.13

Tooth Sum 98 Minimum 108 Maximum

### 2.58 : 1

We Class this as a Medium inertia ratio, as the layshaft for the same overall gearing will be rotating at speeds between the other available ratios. This will result in a transmission that has a good balance of sharp response and smooth transmission.

This Kit Ratio is Recommended for most applications



	16	17	18	19	20	21	22	23	24	25	26	27	28
83	13.40	12.61	11.91	11.28	10.72	10.21	9.74	9.32	8.93	8.58			
82	13.22	12.46	11.77	11.15	10.59	10.09	9.63	9.21	8.83	8.47	8.15		
81		12.29	11.62	11.01	10.46	9.96	9.51	9.10	8.72	8.37	8.05	7.75	
80			11.47	10.88	10.33	9.84	9.39	8.98	8.61	8.27	7.95	7.65	7.38

	22	23	24	25	26	27	28	29	30	31	32
76	8.91	8.53	8.17	7.84	7.54	7.26	7.00	6.76	6.54	6.33	6.13

Tooth Sum 98 Minimum 108 Maximum

### 2.23 : 1

We Class this as a Low inertia ratio, as the layshaft for the same overall gearing will be rotating Slower than the other available ratios. This will result in a faster reacting transmission, with sharper responses to throttle and brake input. Good for High Grip situations.



	16	17	18	19	20	21	22	23	24	25	26	27	28
83	11.57	10.89	10.28	9.74	9.25	8.81	8.41	8.05	7.71	7.40			
82	11.43	10.76	10.16	9.62	9.14	8.71	8.31	7.95	7.62	7.31	7.03		
81		10.63	10.04	9.51	9.03	8.60	8.21	7.85	7.53	7.23	6.95	6.69	
80			9.91	9.39	8.92	8.50	8.11	7.76	7.43	7.14	6.86	6.61	6.37

	22	23	24	25	26	27	28	29	30	31	32
76	7.70	7.37	7.06	6.78	6.52	6.28	6.05	5.84	5.65	5.47	5.30

Tooth Sum 98 Minimum 108 Maximum



U1954  
Thrust Bearing  
F3x8G Super PRO



U3722 Alloy Rear Strap; 3 deg  
U3724 Alloy Rear Strap; 5 deg



U3929  
Alloy Steering Yokes  
7.5 degree



U3758  
Steering Yokes 5 degree



U3701  
Purple Alloy Lipo Posts



U3605  
CNC Alloy Rear Hubs  
1 degree (pair)



Purple Titanium Turnbuckles (pair)  
U1573 - 53mm  
U1574 - 60mm



Steel External Gear  
U3861 - 35 tooth  
U3863 - 31 tooth  
U3864 - 25 tooth  
U3866 - 21 tooth



U3934  
Alloy Zero Trail Hub Carrier



U3991  
Alloy Gearbox Cases



Lower Trans Housings (High)  
U4030 - Alloy LEFT Hand  
U4034 - Alloy RIGHT Hand



S500B - Team Schumacher Banner 3ft x 6ft

G315 Schumacher Team Pit Towel



U3382  
HD Shock  
Diaphragms



Medium Flex Wishbones  
U4053 - Front (pair)  
U4054 - Rear (pair)



U4042  
Roll Bar Set



U3998  
Carbon Fibre Link Mount  
Options Front & Rear (Set 6)



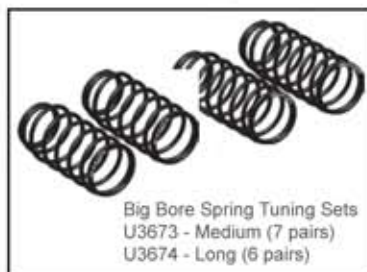
U4029  
Front LiPo Stop



Big Bore Standard  
Shock Pistons  
U3670 - 2 Hole Pistons (pair)  
U3671 - 4 Hole Pistons (pair)  
U3672 - 6 Hole Pistons (pair)



U3611  
CNC Alloy Spring Seat (pair)



Big Bore Spring Tuning Sets  
U3673 - Medium (7 pairs)  
U3674 - Long (6 pairs)



U4047  
Stick Pack  
Conversion Set



Big Bore Rounded  
Shock Pistons  
U3770 - 3 Hole Pistons (pair)  
U3771 - 5 Hole Pistons (pair)



U1301  
Silicone Diff Lube  
The best lube for  
ball diffs!



U1957  
Moly Axle Grease  
The ultimate thrust  
race grease!



M4 Nyloc Wheel Nuts  
U2135 - Purple  
U2811 - Blue  
U2813 - Gold



C4450  
20g CS Cyno  
(Super Glue)  
Thin, ideal  
for tyres.



Precision tools manufactured exclusively for Schumacher Racing



U2856  
Sticky Cable Clips  
Pack of 10



G200  
ZX1 ExtraLube  
The Ultimate Friction  
Eliminator.

2WD Slim Cut Stagger



U6759 - Yellow Compound (pair)  
U6765 - Green Compound (pair)

2WD Slim Stagger Rib



U6592 - Yellow Compound (pair)

2WD Slim Mini Spike 2



U6581 - Yellow Compound (pair)  
U6550 - Green Compound (pair)  
U6549 - Blue Compound (pair)  
U6761 - Silver Compound (pair)

2WD Slim Mini Pin



U6609 - Yellow Compound (pair)

2WD Low Profile Slim Cut Stagger



U6770 - Yellow Compound (pair)  
U6771 - Green Compound (pair)

2.2" Rear Full Spike



U6596 - Yellow Compound (pair)

Front Mini Spike 2



U6557 - Yellow Compound (pair)  
U6517 - Blue Compound (pair)  
U6515 - Green Compound (pair)  
U6762 - Silver Compound (pair)

4WD Front Mini Pin



U6607 - Yellow Compound (pair)  
U6601 - Blue Compound (pair)

## Pre-Glued

Cut Stagger on Revlite Wheels.  
U6760 - Slim 2wd Front - Yellow

Mini Pin on Revlite Wheels.  
U6742 - Rear - Yellow  
U6755 - Slim 2wd Front - Yellow

Mini Spike 2 on Revlite Wheels.  
U6740 - Rear - Yellow  
U6753 - Slim 2wd Front - Yellow

Rear Mini Spike 2



U6558 - Yellow Compound (pair)  
U6518 - Blue Compound (pair)  
U6516 - Green Compound (pair)  
U6763 - Silver Compound (pair)

Rear Mini Pin



U6608 - Yellow Compound (pair)  
U6602 - Blue Compound (pair)

## Revlite Wheels

- U3383 - Rear White
- U3756 - Med Front White
- U3766 - Slim Front White
- U3406 - Rear Yellow
- U3765 - Med Front Yellow
- U3767 - Slim Front Yellow



## Off-Road Foam Inserts

- U6541 - WHITE Foam Tyre Insert; Soft - Truck (pr)
- U6652 - GREY Foam Tyre Insert; Hard - Front - CAT (pr)
- U6653 - GREY Foam Tyre Insert; Hard - Rear - CAT (pr)
- U6667 - GREY Foam Tyre Insert; Hard - Slim 2WD (pr)
- U6668 - WHITE Foam Tyre Inserts; Soft - Ultra Wide (pr)
- U6669 - GREY Foam Tyre Inserts; Hard - Ultra Wide (pr)
- U6733 - BLUE Foam Tyre Insert; Med - Front - CAT (pr)
- U6734 - BLUE Foam Tyre Insert; Med - Rear - CAT (pr)
- U6746 - BLUE Tubby Insert; Med Front - CAT (pr)
- U6747 - BLUE Tubby Insert; Med Rear - CAT (pr)
- U6738 - BLUE Foam Tyre Insert; Med - Slim 2WD (pr)

